



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
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No. 31] NEW DELHI, SATURDAY, AUGUST 1, 1987 (SRAVANA 10, 1909)

इस भाग में निम्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III--खण्ड 2 [PART III--SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
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Calcutta, the 1st August 1987

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## CORRIGENDA

(1)

1. In the Gazette of India, Part III Section 2 dated 2-5-87 under the heading Complete Specification accepted on page 325, Column 2 in respect of Patent specification No. 159322.

(1) For Application No. 739/Cal/83

Read Application No. 738/Cal/83

2. In the Gazette of India, Part III Section 2 dated 9-5-87 under the heading Complete Specification accepted on pages 339 and 340, in respect of Patent specification No. 159349

(1) Insert Application No. 387/Del/83 filed on 8th June, 1983.

3. In the Gazette of India, Part III Section 2 dated 23-5-87 under the heading Complete Specification accepted on page 413, Column 1 in respect of Patent Specification No. 159501.

(1) For Application No. 3122/Cal/84

Read Application No 312/Cal/84.

(2)

1. In the Gazette of India Part III Sec. 2 dated 3-1-87 under the heading 'Complete Specification Accepted' on page 9, Column 1 in respect of Patent Specification No. 158677.

(1) For Inventor's name 'IDEM'

Read 'Hans Ditlev Poulson'

2. In the Gazette of India Part III Sec. 2 dated 31-1-87 under the heading 'Complete Specification Accepted' on page 91, Column 1 in respect of Patent Specification No. 158846.

(1) For Title 'Moulded Insulator Assembly for Protection of Bus Bars and Bus Bar Droppers'  
Read 'Moulded Insulator Assembly for Protection of Bus Bars and Bus Bar Droppers'

3. In the Gazette of India Part III, Sec. 2 dated 7-2-87 under the heading 'Complete Specification Accepted' on page 108 Column 2 in respect of Patent Specification No. 158885 insert.

(1) Provisional Specification 8 pages.

4. In the Gazette of India Part III, Section 2 dated 7-3-87 under the heading 'Complete Specification Accepted' on Page 170, Column 2 in respect of Patent Specification No. 159107 insert—

(1) Complete Specification left on 25-5-1984.

5. In the Gazette of India, Part III, Section 2 dated 7-3-87 under the heading 'Complete Specification Accepted' on Page 164 Column 2 in respect of Patent Specification No. 158992 insert —

(1) Complete Specification left on 21-2-1984.

6. In the Gazette of India, Part III, Section 2 dated 4-4-87 under the heading 'Complete Specification Accepted' on Page 241, Column 1 in respect of Patent Specification No. 159187.

(1) For Inventor's name 'IDEM'

Read Saurabh Natverlal Kinariwala

7. In the Gazette of India, Part III, Section 2 dated 25-4-87 under the heading 'Complete Specification Accepted' on Page 298 Column 1 in respect of Patent Specification No. 159282 insert —

(1) Provisional Specification 5 Pages.

## APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700020

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 22nd June, 1987

484/Cal/87. Celanese Corporation. Process for producing 4-hydroxyacetophenone. [Divisional date 24th June, 1985].

485/Cal/87. Fidia S.p.A. New ester of alginic acid.

486/Cal/87. E. I. Du Pont De Nemours and Company. Improved zeolite rho and zk-5 catalysts for conversion of methanol and ammonia to dimethylamine.

487/Cal/87. E. I. Du Pont De Nemours and Company. System for using synchronous secondaries of a linear motor to biaxially draw plastic films.

488/Cal/87. Mitsui Toatsu Chemicals, Incorporated. Production process of chlorine.

489/Cal/87. Intent Patents A.G. Electrodeless fluorescent lighting system.

490/Cal/87. R. J. Reynolds Tobacco Company. Method for modifying a substrate material for use with smoking articles and product produced thereby.

The 23rd June, 1987

491/Cal/87. Jean Frederic Melchior. Two-stroke internal combustion engine and cylinder head for the latter.

492/Cal/87. Vsesojuzny Gosudarstvenny Institut Nauchno-Issledovatel'skikh I Proektnykh rabot Ogneupornoj Promyshlennosti. Tuyere for flame-jet gunning of a metallurgical unit.

The 24th June 1987

493/Cal/87. Mediolanum Farmaceutici Srl. Process for preparing highly soluble antibacterially active organic salts of pyrido-benzothiazines.

494/Cal/87. Injectall Limited. Improvements in apparatus for injecting substances into liquids. (Convention dates 25th June, 1986 and 10th October, 1986) United Kingdom.

495/Cal/87. Westinghouse Electric Corporation. Improvements in or relating to heat exchangers and electrical apparatus having heat exchangers.

496/Cal/87. United Technologies Corporation. Pressure regulating valve controller.

497/Cal/87. Hagglunds Denison Corporation. Control for transfer system having inhaul and outhaul winches.

The 25th June, 1987

498/Cal/87. Nukem GmbH. Transparent, conductive layer system.

The 26th June, 1987

499/Cal/87. Klein, Schanzlin & Becker Aktiengesellschaft. The procedure for the production of longitudinal slots in a shaft.

500/Cal/87. Pierre Patin. Incluable vehicle.

The 29th June, 1987

501/Cal/87. Pennwalt Corporation. Continuous preparation of dialkanesulfonyl peroxide.

502/Cal/87. McDermott Incorporated. Flexible conductors for welding.

503/Cal/87. University of Queensland. Control of jig separators. (Convention date 27th June 1986, Australia).

**APPLICATIONS FOR PATENTS FILED AT THE  
PATENT OFFICE BRANCH, M.M. BUILDING,  
3RD FLOOR, KAROL BAGH, NEW DELHI-5**

The 5th May, 1987

386/Del/87. Goldstar Co. Ltd., "Cathode ray tube socket". (Convention date 7-5-86, U.K.).

387/Del/87. Council of Scientific & Industrial Research, "An improved process for the manufacture of cold bonded pelletization of ore fins".

388/Del/87. Shell Internationale Research Maatschappij B.V., "Improved silver catalyst". (Convention date 7th May, 1986, U.K.).

389/Del/87. Vapor Corporation, "Thermoelectric cooler".

390/Del/87. Akerlund & Rausing Licens Aktiebolag, "Expandable type lid welding plunger".

391/Del/87. Gkn Technology Limited, "Spring assemblies". (Convention date 9th May, 1986) (U.K.).

The 6th May, 1987

392/Del/87. Otto Ditlev Hansen & Bent Kronborg Nielsen, "A method and a system for peeling crustaceans".

393/Del/87. Magyar Szenhidrogenipari Kutato-Fejlesztő Intézet and Koolajkutató Vallalat, "Several times settable mechanical packer operated by weight of a producing pipe".

394/Del/87. Wolff Walsrode AG., "Process for the production of microcrystalline cellulose".

395/Del/86. Stein Industrie., "A plug for an opening providing an inspection X-ray source with access to pipework or to an apparatus".

396/Del/87. Exxon Research & Engineering company, "Improved agitated dewaxing employing modified agitator means".

The 7th May, 1987

397/Del/87. Bhuvan Chandra Rathor, "Fine microburette".

The 8th May, 1987

398/Del/87. Harold J. Kosasky, "Process and apparatus for determining female ovulation time by measurement of saliva visco-elasticity".

399/Del/87. Steel Authority of India Ltd., "Hot coil binding machine".

400/Del/87. Tenneco Canada Inc., "Steel making flux". (Convention dates 9th May, 1986 & 10th December, 1986) (U.K.).

401/Del/87. Clapem, "Tank with incorporated compression chamber".

402/Del/87. The M.W. Kellogg company, "Ammonia synthesis converter".

403/Del/87. The M.W. Kellogg company, "Ammonia synthesis converter".

404/Del/87. Duracell International Inc., "Insoluble mixed heavy metal polysulfide cathode".

The 11th May, 1987

405/Del/87. The General Electric Company, p.l.c., "Micro-processor back-up system". (Convention date May 14, 1986) (U.K.).

406/Del/87. Ashland Oil, Inc., "A fiber precursor pitch". [Divisional date 29th September, 1984].

407/Del/87. Ashland Oil, Inc., "A process for preparing carbon fibers from a catalytic pitch". [Divisional date 29th September, 1984].

The 12th May, 1987

408/Del/87. J. P. J. Transportation Products, Inc., "Method for heat treating bearing materials".

409/Del/87. Digital Equipment Corporation, "Door assembly for cabinets and the like".

410/Del/87. Digital Equipment Corporation, "Tilt apparatus for cathode ray tube display".

411/Del/87. Digital Equipment Corporation, "Cordless computer assembly".

412/Del/87. Imperial Chemical Industries Plc., "Polyester polyols". (Convention date 30th May, 1986) (U.K.).

413/Del/87. Imperial Chemical Industries Plc., "Dechlorination of aqueous alkali metal chloride solution". (Convention date 23rd May, 1986) (U.K.).

414/Del/87. Ajendra Kumar Mittal, "A mechanism for converting clockwise as well as anti-clockwise circular motion from a driving shaft into unidirectional circular motion on two driven shafts each corresponding to clockwise and anti-clockwise circular motion, respectively; and a transmission assembly of an automobile incorporating the mechanism".

415/Del/87. Ajendra Kumar Mittal, "A mechanism for converting unidirectional circular motion from a shaft into clockwise and anti-clockwise motion of two shafts, respectively and alternately, and a starting mechanism of an engine incorporating the mechanism".

The 14th May, 1987

416/Del/87. Ashutosh Sharma and Dr. Otto S. Wolfbies, "Method and apparatus for continuous determination of sulphur dioxide in gases or in liquid solutions".

417/Del/87. Megapulse Incorporated, "Methods of and apparatus for radio-frequency generation in resonator tank circuits excited by sequential pulses of alternately opposite polarity".

418/Del/87. Rachho Scientifiques and Rachho Pharmaceuticals & Chemicals Pvt. Ltd., "A deionized water quality monitor alarm".

419/Del/87. The Lubrizol Corporation, "Phosphorus and sulfur-containing lubricant and functional fluid compositions".

420/Del/87. Egszov Epito Es Gepipari Szovetkezeti Kozos Vallalat, "Self-supporting, space-confining structure with variable space".

The 14th May, 1987

421/Del/87. Bayer Aktiengesellschaft, "Process for the preparation of 4-nitrodiphenylamines".

422/Del/87. GKN Technology Ltd., "Securing components to leaf springs of composite material". (Convention date 17th May, 1986) (U.K.).

423/Del/87. Egszov Epito Es Gepipari Szovetkezeti Kozos Vallalat, "Building unit for buildings with lightweight structure".

424/Del/87. Astra Tech AB., "Heart assist device".

425/Del/87. W&T Avery Limited, "Multi-cell processing". (Convention date 14th May, 1986) (U.K.).

426/Del/87. Honda Giken Gogyo Kabushiki Kaisha, "Auto-decompression system for engine".

The 15th May, 1987

427/Del/87. The Plessey Company PLC., "Photoshromic spirocyan compounds". (Convention date 15th May, 1986) (U.K.).

The 18th May, 1987

428/Del/87. Soli Tech, Inc., "Rigidification of semi solid agglomerations".

429/Del/87. Amalgamated Wireless (Australasia) Ltd., "Membrane keyboard". (Convention date 20th May, 1986 & 4th December, 1986) (Australia).

430/Del/87. Burlington Industries, Inc., "Cold weather garments".

The 19th May, 1987

431/Del/87. UOP INC., "Mixing device for vertical flow fluid-solid contacting".

432/Del/87. Smiths Industries Public Limited company, "Radiation pyrometer systems for gas turbine engines". (Convention date 5th June, 1986) (U.K.).

433/Del/87. Chemische Fabrik Stockhausen GmbH, "A process for the production of derivatives of natural fats and oils".

434/Del/87. The Firestone Tire & Rubber company, "Mobile tire curing unit".

435/Del/87. Imperial Chemical Industries PLC., "Catalytic process". (Convention dates 27th May, 1986 & 13th April, 1987) (U.K.).

436/Del/87. Julia Pavlovna Veber & Others, "Apparatus for cleaning ventilation exhausts".

437/Del/87. The Firestone Tire & Rubber Company, "Method for manufacturing a first stage radial tire for vehicles".

The 20th May, 1987

438/Del/87. Appropriate Technology Development Association, "Improved process and extractor for extracting juice from sugarcane".

439/Del/87. General Tire, Inc., "Tire with tread wear indicating grooves".

440/Del/87. Donlee Technologies Inc., "Two stage circulating fluidized bed reactor and method of operating the reactor".

441/Del/87. Aktiebolaget Bofors, "Base bleed gas generator for a projectile, shell or the like".

The 21st May, 1987

442/Del/87. General Tire, Inc., "Belts for tires".

443/Del/87. Union Carbide Corporation, "Process for the separation of hydrocarbons from a mixed feed-stock".

The 22nd May, 1987

444/Del/87. Imperial Chemical Industries PLC., "Extrusion die". (Convention date 3rd June, 1986) (U.K.).

445/Del/87. Akerlund & Rausing Licens Aktiebolag, "Powder proof relosable container".

446/Del/87. Shell Internationale Research Maatschappij B.V., "Polymer preparation".

The 25th May, 1987

447/Del/87. Atlantic Pharmaceutical Products Limited, "Substance or pharmaceutical or cosmetic composition inhibiting or destroying at least one unicellular living creature and/or at least one virus, drug or product containing such a substance, process of manufacture of such substance, chemical compound included in such substance of inhibition or destruction of at least one unicellular living creature and/or of at least one virus".

448/Del/87. The Chief Controller Research & Development, "A process for coating titanium and its alloys".

449/Del/87. The Jay Engineering Works Ltd., "Regulators for electric ceiling fans". [Divisional date 28th August, 1984].

450/Del/87. The Jay Engineering Works Ltd., "Regulators for electric ceiling fans". [Divisional date 28th August, 1984].

The 26th May, 1987

451/Del/87. Indian Sewing Machine Company Limited, "Wrinkle remover".

452/Del/87. Piaggio & C.S.P.A., "Governor device for regulating the cross section surface area of the exhaust gas duct in two-stroke internal combustion engines".

453/Del/87. Piaggio & C.S.P.A., "Braking system for two-wheelers".

454/Del/87. Vanitone Pty. Limited, "Moulded resin article".

The 27th May, 1987

455/Del/87. The Jay Engineering Works Ltd., "Regulators for electric ceiling fans". [Divisional date 28th August, 1984].

456/Del/87. The Jay Engineering Works Ltd., "Regulators for electric ceiling fans". [Divisional date 28th August, 1984].

457/Del/87. Loc-Tex International Pty. Limited and U-Roll machinery Pty. Ltd., "Roll forming machine". (Convention date 28th May, 1986, Australia).

The 27th May, 1987

458/Del/87. Maghemite Inc., "Propulsion by permanent magnets". (Convention date 2nd September, 1986, U.K.).

The 1st June, 1987

459/Del/87. Bhuvan Chandra Rathor, "Auto-stop fine micro burette".

460/Del/87. Whirlpool Corporation, "Power switch and baffle assembly for a refrigerator".

461/Del/87. Exxon Chemical Patents, Inc., "Sealable films". (Convention date 30th May, 1986, U.K.).

462/Del/87. Exxon Chemical Patents, Inc., "Sealable films". (Convention date 30th May, 1986, U.K.).

463/Del/87. Exxon Chemical Patents, Inc., "Sealable films". (Convention date 30th May, 1986, U.K.).

464/Del/87. EMC-Tamaco A/S, "A method, a binder and a binding machine for closing hose or bag shaped packings, primarily tubular foodstuff packings".

465/Del/87. Parker Pen (Benelux) B.V., "A hybrid marking instrument and writing ink composition".

466/Del/1987. Morton Thiokol, Inc., "Resin-Immobilized biocides".

467/Del/87. Ravi Raj Gupta, "A process for the manufacture of tiles".

The 21st June, 1987

468/Del/1987. Vinay Kapoor, "PVC (H.D.) crutch handle".

469/Del/87. Imperial Chemical Industries Plc., "Adsorption Process". (Convention date 24th February, 1987 & 12th June, 1986, U.K.).

470/Del/87. LA Telemecanique Electrique, "A frequency converter for the stabilized power supply of asynchronous motors".

471/Del/87. L'Air Liquide, Societe Anonyme Pour L'Etude ET L'Exploitation Des Procedes Georges Claude, "Process and plant for separating a gaseous mixture by adsorption".

472/Del/87. Marcadet Mobilier, "Sliding shutter composed of articulated slats, particularly for furniture".

473/Del/87. Allied Corporation, "Bipolar membranes and methods of making same".

474/Del/87. Grumman Aerospace Corporation, "Voice recognition process utilizing content addressable memory".

475/Del/87. Oil & Natural Gas Commission, "A process of coating silica sand".

The 3rd June, 1987

476/Del/87. Ingersoll-Rand Company, "Gang drill construction".

477/Del/87. Burlington Industries, Inc., "Commercial nickel-phosphorus electroplating".

478/Del/87. Oil & Natural Gas Commission, "Packer slips".

The 4th June, 1987

479/Del/87. R. K. Tandon, "An improved main jet for use in carburettor, of petrol engines of vehicles".

480/Del/87. N. V. Bekaert S.A., "Brass-coated steel elements having improved rubber adhesion properties". (Convention date 27th June, 1986, U.K.).

481/Del/87. The Lubrizol Corporation, "Aqueous compositions containing carboxylic salts".

The 5th June, 1987

482/Del/1987 Glaxo Group Limited, "Macrolide Compound".

483/Del/1987 Thumswamy Joseph David, "On a wheel frame mounted multry drive bicycle".

484/Del/1987 Fuller Company, "Apparatus for roasting fine grained material".

485/Del/1987 Aerospatiale Societe Nationale Industrielle, "A directional and stabilizing device having a faired and slanted antitorque rotor and a dissymmetric "V" empennage, and a helicopter equipped with such a device".

486/Del/1987 Compagnie Francaise D'Etudes ET DE Construction "TECHNIP". "Improvements in or relating to method of and system for separating the silica contained in the residual black liquors from pulp manufacture".

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, THIRD FLOOR, SUNMILL COMPOUND, LOWER PAREL (WEST) BOMBAY-13

The 1st May 1987

152/BOM/87 Wipro Systems Ltd. An Electronic Switch.

The 5th May 1987

153/BOM/87 ION Exchange Ltd. (India). A continuous water filter comprising an elongated column.

The 6th May 1987

154/BOM/87 Thumrasp Rustumji Dalal. Process for manufacturing wheat meal biscuits, whole-wheat biscuits cereal preparations for food, Bran for food, cereal preparations consisting of whole wheat flakes.

The 7th May 1987

155/BOM/87 Santrade Limited. Process and apparatus for the purification of contaminated sulphur.

The 12th May 1987

156BOM/87 Ashok Ganesh Avalaskar. Energy from sea due to its High tide Low tide position.

The 19th May 1987

157/BOM/87 Bhanubhai Somabhai Patel. A Pilfer proof container.

158/BOM/87 Atmaram Kachardas Pael. A moving vegetable cutter—chopper.

The 20th May 1987

159/BOM/87 Hindustan Lever Ltd. Detergent compositions. 23-5-86 Great Britain.

160/BOM/87 Ashok Ganesh Kulkarni. A device to accomplish safety of operators of mechanical power press.

The 21st May 1987

161/BOM/87 Y. R. Pakkala, K. C. Datta and R. S. Jagtap of R.C.F. Process development of hydroxyethylene diphosphonic acid—a novel chemical for treatment of cooling water.

The 22nd May 1987

162/BOM/87 Devendra Kumar Singhai. Single phase over load automatic switching device.

163/BOM/87 Ravjibhai Madhabhai Savalia. Improvement and modification of electric heater apparatus for diamond and like thereof.

164/BOM/87 Kabelschlepp GmbH. A guide chain for carrying lines.

The 25th May 1987

165/BOM/87 Prof. M. V. Hegde and Mr. S. K. Karyekar. An affinity method for the purification of penicillin acylase—an enzyme used in the manufacture of 6 amino penicillanic acid from penicillin G.

The 25th May 1987

166/BOM/87 Bajaj Auto Ltd. Alternate means for securing a spare wheel of a two wheeler motor vehicle above front wheel.

167/BOM/87 Bajaj Ltd. Flasher unit for flasher direction indicators for motor vehicles.

168/BOM/87 ION Exchange (India) Ltd. Improvements in or relating to electrolizer. VI. A electro chloundoz.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 1st June 1987

399/Mas/87 Rosemount Inc., Differential Pressure Sensor.

400/Mas/87 Normalair-Garrett (Holdings) Limited, Air Cycle Cooling Systems. (June 2, 1986; England).

401/Mas/87 Altalanos Szolgaltato Es Epitoipari Kiszovetkezet. Apparatus for the removal of ferromagnetic materials from liquids, organic or inorganic respectively mixtures-in particular fuels, for treating with magnetic field and reduction of surfacial stresses.

The 2nd June, 1987

402/Mas/87 AB Akerlund & Rausing. A method and a device for scrap-free manufacture of coated profiles and thermoformed containers.

403/Mas/87 PRO-Cord S.r.l. Chair with hinged backrest.

404/Mas/87 The Graver Company. Method and apparatus for generating acid and base regenerants and use thereof to regeneration-exchange resins.

405/Mas/87 Mitsui Toatsu Chemicals, Inc., Process for producing cyclic ureas.

## The 3rd June 1987

- 406/Mas/87 Minnesota Mining and manufacturing Company. Wide-angle-reflective cube-corner retroreflective sheeting.
- 407/Mas/87 Minnesota Mining and Manufacturing Company. Multi-Chamber Deposition system.
- 408/Mas/87 The Dow Chemical Company. Electrolytic Cell.
- 409/Mas/87 Phone-Poulenc Chimie. Resilient silicon elastomer support and its use.

## The 4th June, 1987

- 410/Mas/87 Appan Parambath Aboobacker. A modern relief cot.
- 411/Mas/87 Maschinenfabrik Reinhausen Gebrüder Scheubeck GmbH & Co. KG. Control apparatus for a tapped transformer.
- 412/Mas/87 Hackforth GmbH & Co. A resilient shaft coupling.
- 413/Mas/87 Taurus Gumilpari Vallalat. Reinforced flexible Hose.
- 414/Mas/87 Fives-Cail Babcock. Method of regulating a cement manufacturing installation.
- 415/Mas/87 Railmaster system, incorporated. Improved railway train of highway vehicles and compounds therefor.

## The 5th June, 1987

- 416/Mas/87 Indian Institute of Technology. A device for lifting and tilting an object having a cylindrical core.
- 417/Mas/87 Lilliwytte Societe Anonyme. Electrochemical cell. (June 6, 1986; Great Britain).
- 418/Mas/87 All Weather Sports International B. V. A log guard.
- 419/Mas/87 POD Limited. Vehicle Body Unit. (June 14, 1986; Great Britain).
- 420/Mas/87 Maschinenfabrik Rieter AG. Bobbin tube magazine. (July 18, 1986; Great Britain).

## ALTERATION OF DATE

160734. Ante dated to 1st January, 1981. (425/Del/84).

160761. Ante dated to 23rd December, 1981. (500/Del/85).

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

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CLASS : 36-A<sub>2</sub>

160690

Int. Cl. : F 01 c 21/00.

APPARATUS TO CONTROL SURGE IN A CENTRIFUGAL COMPRESSOR.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventor : 1. SURESH CHANDRA AGARWAL.

Application No. 102/Cal/83 filed January 27, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

An apparatus to control surge in a centrifugal compressor comprising :

- a suction line connected to an input of the compressor;
- a discharge side line connected to an output of the compressor;
- a recirculation line connected between the discharge side and the suction side lines;
- a pressure control valve in said recirculation line;
- a controller connected to said valve for controlling said valve;
- a suction side pressure transmitter for transmitting a suction side pressure value ( $P_s$ );
- a discharge side pressure transmitter for transmitting a discharge side pressure value ( $P_d$ );
- an orifice differential pressure transmitter for transmitting an orifice differential pressure from one of the suction side ( $h_s$ ) and discharge side ( $h_d$ ) of the compressor; and
- a controlling unit connected to said transmitter and to said controller for calculating a desired value for the one of said differential pressures transmitted, determining a difference between the actual and desired differential pressures and applying the difference to said controller for controlling said valve to change the actual differential pressure value to meet the desired differential pressure value.

Compl. specn. 18 pages.

Drg. 3 sheets

CLASS : 105-C; 161-D

160691

Int. Cl. : E 01 f 9/04.

IMPROVED IN OR RELATING TO REFLECTING ROAD BEACONS.

Applicant & Inventor : SAMARENDRA KUMAR SPNGUPTA, OF 85/1B, BANK PLOT, CALCUTTA-700031, STATE OF WEST BENGAL, INDIA.

Application No. 602/Cal/83 filed May-13, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

A reflecting road beacon comprising a base portion having a central depression in which is fitted by means of anchors a resilient mounting having at least a pair of reflecting road lenses fitted on each with face opposed to each other, the upper edges or rims of the said base portion and the resilient mounting made sloping downwards.

Compl. specn. 9 pages.

Drg. Nil

CLASS : 119-D & F,

160692

Int. Cl. : D 03 d 47/00.

**SHUTTLELESS WEAVING MACHINE COMPRISING A DETECTOR FOR TRACING DEFECTS ON WEFT THREADS AND MEANS FOR REMOVING SAME.**

Applicant : RUTJE STRAKE B.V., OF DR. HUUB VAN DOORNEWEG 26, 5753 PM DEURNE, THE NETHERLANDS.

Inventor : 1. HUBERT PETER VAN MULLEKOM.

Application No. 679/Cal/83 filed May 30, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

Shuttleless weaving machine comprising a detector for tracing defects on weft threads and means for removing detected weft threads from the weaving shed, the detector co-operating such with the driving apparatus of the weaving machine that the main machine shaft is rotated backwardly through an angle at a defect signal of the detector and thereby the latest weaving shed change is made undone in order to cancel the binding between the warp threads and the detected weft thread, characterized in that the means for removing a detected weft thread from the weaving shed comprises a device positioned outside the weaving shed and movable, when the machine is at stand still, in the weft direction along the beating up line of the cloth, said device having a loosening element movable in a plane transverse to the weft direction and therewith brushing the cloth at the position of the beating up line in the retracting direction of the reed, as well as a catching element movable from a position outside the weaving shed between the warp threads to a position inside the weaving shed at a distance from the beating up line, said catching element being adapted to catch the loosened weft thread and to pull it outwardly in the shape of a loop between two warp threads, a discharge-suction mouth being provided adjacent to the position of the catching element outside the weaving shed.

Compl. specn. 13 pages.

Drgs. 2 sheets.

CLASS : 166-B

160693

Int. Cl. : B 63 b 21/00.

**DEVICE FOR MAINTAINING A BUOYANT BODY IN POSITION IN RELATION TO ANOTHER BODY.**

Applicant : SINGLE BUOY MOORINGS, INC., OF 5, ROUTE DE FRIBOURG P.O. BOX 124, CH-1723 MARLY, SWITZERLAND.

Inventor : 1. LEENDERT POLDERVAART.

Application No. 729/Cal/83 filed June 9, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 15 Claims

Device for maintaining a buoyant body, such as a vessel, in a position in relation to another body connected to the bottom of the water, which device comprises a stiff-arm attached to one body, such as the said another body, and having its other end cooperating with connecting means which extend downwardly from the other body,

such as the vessel, and below water level are attached to a weight, the point of co-operation between said connecting means and the stiff arm being situated between the suspension point of the connecting means and the weight, characterized in that the stiff arm of extend at or above water level between the anchored body, such as the buoy, and the connecting means.

Compl. specn. 15 pages.

Drg. 8 sheets

CLASS : 172-D, s & s

160694

Int. Cl. : D 01 h 7/00; 7/74.

**OPEN END SPINNING ROTOR OBTAINED BY NON-CUTTING SHAPING WORK AND A METHOD OF PRODUCING.**

Applicant : SCHUBERT & SALZER MASCHINEN-FABRIK AKTIENGESELLSCHAFT, OF FRIEDRICH-EBERT-STRASSE 84, 8070, INGOLSTADT, WEST GERMANY.

Inventors : 1. EBERHARD HOFMANN, 2. SIMON ESCHER.

Application No. 1028/Cal/83 filed August 20, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 23 Claims

An open end spinning rotor obtained by non-cutting shaping work, with a collecting groove, characterised in that the spinning rotor has, in the region of its collecting groove, and if this region is regarded on an enlarged scale, a surface which resembles the surface of an orange, as it is produced during plastic forming without contact of forming tools.

Compl. specn. 43 pages.

Drg. 3 sheets

CLASS : 190-B

160695

Int. Cl. : F 01 d 25/00.

**TURBINE ROTOR HEATING, DISASSEMBLY, HANDLING AND REASSEMBLY APPARATUS.**

Applicant : GENERAL ELECTRIC COMPANY, OF 1 RIVER ROAD, SCHENECTADY 5, NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. ADRIAN ROSS ADFS, 2. GEORGE SMALL SCHMIDT.

Application No. 1053/Cal/83 filed August, 29, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 50 Claims

Handling apparatus for disassembling and reassembling the rotor of the turbine wherein the turbine wheel is shrink fit on the shaft, said apparatus comprising :

an oven fittable over said wheel;

means for controlling said oven effective to heat said wheel at a heating rate sufficient to produce an average temperature in said wheel sufficiently higher than an average temperature in said shaft that a shrink fit between said wheel and said shaft is released by a clearance established therebetween;

means for supporting substantially all of a weight of said wheel independently of said shaft with axes of said shaft and said wheel substantially horizontal; and

means for horizontally displacing support means and the wheel, along said shaft, at least until said wheel is free of a shrink fit area on said shaft.

Compl. specn. 53 pages.

Drg. 3 sheets

CLASS : 158-D

160696

Int. Cl. : B 61 h 11/00.

BRAKING AND BRAKING ENERGY RETRIEVAL, STORAGE AND REUTILIZING DEVICE FOR RAILWAY, TRAMWAY AND LIKE VEHICLE.

Applicant & Inventor : BIMAN KUMAR PATHAK, 43/G, VIDYAYATAN SARANI, CALCUTTA-35, WEST BENGAL, INDIA.

Application No. 1062/Cal/83 filed August 31, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

A braking and braking energy retrieval, storage and reutilizing device for railway, tramway and like vehicles comprising a pair of sprocket wheels freely rotatable in opposite directions mounted on adjacent pair of axles of a bogie, clutches mounted on each axle, an annular disc between each of the sprocket wheels and the clutches for coupling them, a pair of shaft mounted on the bogie between the axles, a toothed wheel rotatable mounted on each shaft, an additional sprocket wheel mounted on each shaft and fixed to the adjacent toothed wheel, a chain connecting the sprocket wheels on each axle and the adjacent shaft a torsion spring around each shaft having its inner end fixed to the toothed wheel on the shaft and means for ensuring the twisting of the springs by the rotation of the toothed wheels by one of the axles through the sprocket wheels on the axle and the shaft and the chain connecting them.

Compl. specn. 10 pages.

Drg. 1 sheet

CLASS : 23-H

160697

Int. Cl. : H 05 k 5/00.

LIGHT WEIGHT CHASSIS AND CABINET ASSEMBLY FOR ELECTRICAL EQUIPMENTS, SUCH AS TAPE RECORDERS, CONTROLLED BY MULTIPLE PRINTED CIRCUIT BOARDS.

Applicant : FAIRCHILD WESTON SYSTEMS INC., OF FRUITVILLE & PACKINGHOUSE ROADS, SARASOTA, FLORIDA 33578, U.S.A.

Inventors : 1. WILLIAM RAY DAVIS. 2. DAVID GERALD HART.

Application No. 1159/Cal/83 filed September 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

A light weight chassis and cabinet assembly for electrical equipment and a circuit board associated therewith comprising :

a circuit board support means, including a wire frame carrying opposed pairs of circuit board guides and electrical connector means positioned to be connected to circuit boards supported between said guide pairs; and comprising :

a rigid bezel;

first means for supporting said wire frame to said bezel such that said bezel prevents deformation of said wire frame, said circuit board guides being perpendicular to a plane of said bezel; and

second means for pivotably supporting said electrical equipment to one end of said bezel to enable said equipment to be pivoted outwardly from said frame.

Compl. specn. 8 pages.

Drg. 3 sheets

CLASS : 32-F2b + 55-D.

160698

Int. Cl. : A 01 m 9/00; C 07 d 29/42.

A METHOD OF PREPARING 5-METHYL-3, 4-DI-HYDRO-2(1H) PYRIDONE.

Applicant : ICI AMERICAS INC., OF NEW MURPHY ROAD AND CONCORD PIKE, WILMINGTON, STATE OF DELAWARE, UNITED STATES OF AMERICA.

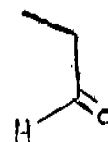
Inventors : 1. LUDWIG ALBERT HARTMANN, 2. JOHN FERGUS STEPHEN.

Application No. 1200/Cal/83 filed September 29, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

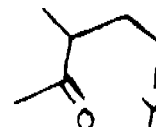
A method of preparing 5-methyl-3, 4-dihydro-2 (1H) pyridone which comprises first reacting by means of a Michael reaction as herein described propionaldehyde of Formula II



with an acrylic compound of Formula III of the accompanying drawings



where Y is COOR, R is an organic group, CONH<sub>2</sub> or CN to produce an aldehyde of formula IV of the accompanying drawings and thereafter cyclizing the aldehyde of formula IV



as hereinbefore described, said cyclization being effected in the presence of an amine or an ammonium salt when Y is COOR.

Compl. specn. 27 pages.

Drg. 1 sheet

CLASS : 129-G

160699

Int. Cl. : H 01 s 3/14.

PROCESS AND APPARATUS FOR THE MANUFACTURE OF SCRIBED FERROMAGNETIC SHEETS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : 1. RICHARD ALBERT MILLER.

Application No. 1240/Cal/83 filed October 6, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.



## 5 Claims

A process for manufacture of a scribed ferromagnetic sheet comprising :

curving the ferromagnetic sheet; and

scribing on the curved ferromagnetic sheet by a laser beam magnetic domain defining lines substantially perpendicular to the axis of curvature of the sheet.

Compl. specn. 9 pages.

Drg. 2 sheets

CLASS : 65-A.

160700

Int. Cl. : H 02 m 7/68.

STATIC POWER CONVERTER FOR CONVERTING ELECTRICAL POWER.

Applicant : BBC BROWN, BOVERY & COMPANY, LIMITED, OF CH-5401 BADEN, SWITZERLAND.

Inventor : 1. DR. HERBERT STEMMLER.

Application No. 1315/Cal/83 filed October 26, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

Astatic power converter for converting electrical power, having fast-acting overvoltage protection, comprising :

plural bridge circuits each having a.c. voltage terminals and d.c. voltage terminals, wherein each a.c. voltage terminal of each bridge circuit is coupled with every other a.c. voltage terminal of the plural bridge circuits by means of at least one capacitor;

said plural bridge circuits each having an a.c. side and a d.c. side and said plural bridge circuits being phasewise parallel-connected on the a.c. side thereof;

said plural bridge circuits having the d.c. sides thereof parallel-connected to each other by means of at least one intermediate circuit reactor; and

said plural bridge circuits comprising bridge arms having GTO thyristors that can be switched off, said bridge circuits being driven out of phase with respect to one another.

Compl. specn. 16 pages.

Drg. 2 sheets

CLASS : 185-E

160701

Int. Cl. : A 23 f 3/00.

PROCESS FOR PREPARING COLD SOLUBLE TEA PRODUCT.

Applicant : SOCIETE DES PRODUITS NESTLE S.A., CASE POSTALE 353, 1800 VEVEY, SWITZERLAND.

Inventors : 1. TITO LIVIO LUNDER, 2. CORINE MADELEINE NIELSEN.

Application No. 1495/Cal/83 filed December 6, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

## 11 Claims

A process for preparing a powdered tea extract characterised in that black tea leaves are macerated with water at a temperature from 15°C to 40°C for at least 20 minutes, the macerated leaves are extracted first with water at a temperature from 10°C to 40°C for a period of up to 2 hours and then extracted conventionally with hot water at a temperature of 60°C to 100°C for a period of up to 15 minutes after which the cold and hot extracts are mixed before being concentrated and dried.

Compl. specn. 11 pages

Drg. Nil

-177 G1/87

CLASS : 71 E

160702

Int. Cl. : E 02 F 3/00.

BUCKETWHEEL MACHINE.

Applicant : M.A.N. MASCHINENFABRIK AUGSBURG-NURNBERG AKTIENGESSELLSCHAFT, A GERMAN COMPANY OF POSTFACH 44 81 88, 8500 NURNBERG 44, WEST GERMANY.

Inventor : ANTON SUPPAN.

Application No. 124/Mas/84 filed February 23, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 4 Claims

Bucketwheel machine with a raisable and lowerable bucketwheel boom with its front end being suspended on ropes and its rear end being articulatedly supported on a structural part of the bucketwheel machine and provided with equipment for raising and lowering the bucketwheel boom, said equipment comprising a rope drum system, rope sheaves in an upper block and rope sheaves in a lower block as well as two rope systems each with two or more ropes, characterized in that half of each group of ropes i.e. two or more, are led from the corresponding rope drum or drums via rope sheaves of the upper block and the lower block situated on that same side of the longitudinal centre plane of the bucketwheel boom to a pivoting rope equalizing lever which is also situated on that same side of the longitudinal centre plane of the bucketwheel boom and in that the articulated support of the bucketwheel boom is formed by a ball and socket bearing permitting raising and lowering of the bucketwheel boom about a horizontal axis and limited slowing of the boom about a vertical axis.

Compl. specn. 10 pages.

Drg. 2 sheets

CLASS : 199

160703

Int. Cl. : G 01 f 23/06, 23/10.

LEVEL INDICATOR cum SIGNALLER DEVICE.

Applicant & Indicator : RENGASAMI LAKSHMANAPERUMAL, SON OF LATE RENGASAMI, SUNNAMBUKKARA STREET, IALGUDI POST-621 601 TRICHY DISTRICT, TAMIL NADU STATE, INDIA.

Application No. 223/Mas/83 filed on 16th November, 1983.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 1 Claims

Level Indicator cum Signalling device comprising of three major parts 'A' a signalling board which shows the high and low level indication by the glowing of the respective lamps provided for the high/low levels; 'B' the cylindrical float chamber made of porcelain discs at the top and bottom, the cylinder being provided with a PVC guard and is inside an outer casing, the float proper is made up of thin copper sheet and the extremes of which is confined to the float springs at the top and bottom of the float chamber with respect to the high and low level of the vessel of which the level is to be monitored, the float chamber being in communication with the oil storage tank 'C' which in turn is in communication with the vessel, of which the level indication is to be made, through a PVC tube from the flanged M.S. air pipe on the vessel 'D' to the oil storage tank 'C' comprising of an oil tube made up of copper which is in communication with the float chamber at one end and terminating at the other end with a one way float guard through which oil enters into the copper tube and thus air is displaced and the air displaced is a measure of the level in the tank which is directly indicated by the raising/lowering of the float which is actuated by the oil pressure subjecting the float to raise/descend by the action of the contact springs establishing the contact

with the signal board 'A' which indicates the glowing of lamps with respect to high/low level and the signal system can be adjusted by altering the position of the air pipe on the vessel, for which the level is to be monitored, to any desired level which can be varied to suit the requirement.

Compl. specn. 7 pages.

Drg. 1 sheet

CLASS : 205 H

160704

Int. Cl. : B 60 c 19/00.

#### PNEUMATIC VEHICLE TIRE.

Applicant: CONTINENTAL GUMMI-WERKE AKTIEN-GESELLSCHAFT, OF KONIGSWORTHER PLATZ 1, 3000 HANNOVER, FEDERAL REPUBLIC OF GERMANY, A GERMAN COMPANY.

Inventor : DIETER ROHDE.

Application for Patent No. 264/Mas/84 filed on 12th April 1984.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 5 Claims

A pneumatic vehicle tyre having a substantially inextensible belt between the tread strip and the radial carcass and having shoulder-like widened portions disposed on both sides of its tread strip, said widened portions being formed by a stepped arrangement and not coming into contact with the roadway the lateral walls of the tyre extending radially inwardly from said widened portions to the tyre beads, wherein the belt edges extend to the region of the widened portion and the vertical stepped surfaces of the widened portion protrude laterally over a distance which corresponds to 25% to 40% of the distance over which the bulging lateral walls of the tyre protrude at their widest point beyond the vertical stepped surface.

Compl. specn. 7 pages.

Drg. 1 sheet

CLASS : 155 E & 155 D

160705

Int. Cl. : B 32 b 7/00.

#### A POLYMERIC ARTICLE HAVING A FABRIC LAYER.

Applicant : DAYCO CORPORATION OF 333 WEST FIRST STREET, DAYTON, OHIO 45402, U.S.A. AN AMERICAN CORPORATION, ORGANIZED UNDER THE LAWS OF THE STATE OF MICHIGAN, U.S.A.

Inventors : 1. DELMAR D. LONG. 2 JAMES D. HILL.

Application for Patent No. 271/Mas/84 filed on 18th April, 1984.

Convention date on 29th March, 1984/450849/(Canada).

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 14 Claims

A polymeric article having a fabric layer provided with opposed sides, and at least one polymeric coating secured to said fabric layer characterized in that said fabric layer comprises a first substantially planar layer of thread disposed in superimposed relation with a second substantially planar layer of thread whereby said thread of said first layer are not woven with said thread of said second layer said polymeric coating effectively being the sole securement means securing said thread of said first layer to said thread of said second layer and thereby imparting its flexible characteristic to said securement means between said thread of said first and second layers.

Com. specn. 24 pages.

Drg. 1 sheet

CLASS : 111, 76 B & 76 E

160706

Int. Cl. : G 09 f 3/12.

#### MALE COMPONENT FOR TWO-PIECE ANIMAL EAR TAG.

Applicant : Y-TEX CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER STATES OF AMERICA, OF 1825 BIG HORN AVENUE, CODY, WYOMING, UNITED STATES OF AMERICA.

Inventor : ROBERT J. JATKOS.

Application for Patent No. 287/Mas/1984 filed on 24th April 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 8 Claims

A male component for a two-piece animal ear tag comprising :

- a tab portion formed of a relatively flexible plastic material;
- a tip portion formed of a relatively hard plastic material; and
- a hollow stem portion joining said tab and tip portions, said stem portion being unitary and including a relatively flexible portion adjacent to said tip, and a transition zone between said relatively flexible portion and said relatively hard portion, said plastics being blended in said transition zone to form a unitary piece of plastic material.

Compl. specn. 11 pages.

Drg. 1 sheet

CLASS : 32 F.2(c)

160707

Int. Cl. : C 07 f 9/28.

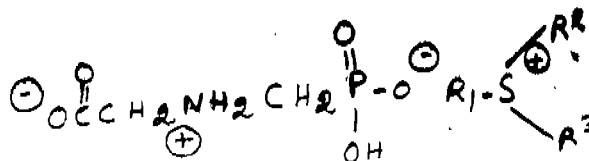
#### A PROCESS FOR THE PREPARATION OF MIXED ALKYL SULFONIUM SALTS OF N-PHOSPHONOMETHYLGLYCINE.

Applicant : STAUFFER CHEMICAL COMPANY OF WESTPORT, CONNECTICUT 06881, U.S.A., A U.S. COMPANY.

Inventor : MICHAEL PAUL PRISBYLLA.

Application No. 297/Mas/84 filed on 27th April 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.



#### 5 Claims

A process for the preparation of mixed alkylsulfonium salts of N-phosphonomethylglycine having the formula (1) shown in the accompanying drawings wherein R<sub>1</sub> is selected from the group consisting of long-chain saturated or unsaturated alkyl groups having from 12 to 20 carbon atoms and R<sub>2</sub> and R<sub>3</sub> are the same or different and are selected from the group consisting of lower alkyl having from 1-3 carbon atoms which comprises reacting N-phosphonomethylglycine with an appropriate alkylsulfonium halide in the presence of silver oxide, filtering the insoluble silver halide precipitated as a consequence of the reaction, leaving the alkylsulfonium salt of N-phosphonomethylglycine in solution.

Compl. specn. 15 pages.

Drg. 1 sheet

CLASS : 32 F. 2(C)

160708

Int. Cl. : C 07 f 9/28.

A PROCESS FOR THE PREPARATION OF BIS-ALKYL-PHOSPHONIUM SALTS OF N-PHOSPHONOMETHYLGLYCINE.

STAUFFER CHEMICAL COMPANY, WESTPORT, CONNECTICUT 06881, U.S.A., A U.S. COMPANY.

Inventors : FRANCIS HARRY WALKER.

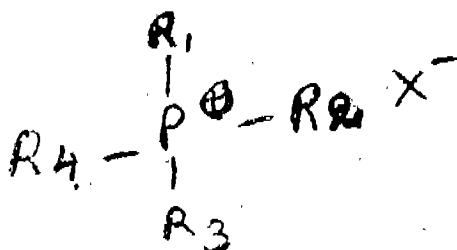
Application No. 298/Mas/84 filed on 27th April 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 2 Claims

A process for the preparation of bis-alkyl phosphonium salts of N-phosphonomethylglycine which comprises :

- (a) reacting N-phosphonomethylglycine with an alkyl phosphonium halide having the formula



wherein  $R_1$ ,  $R_2$ ,  $R_3$  and  $R_4$  are the same and are selected from the group consisting of saturated or unsaturated alkyl groups having from 2 to 5 carbon atoms, and  $X$  is a halide in the presence of silver oxide, wherein the mole ratio of alkylphosphonium halide to N-phosphonomethylglycine is at least 2 : 1 and

- (b) separating the bis-alkyl phosphonium salt of N-phosphonomethylglycine in solution from the insoluble silver halide precipitated as a consequence of the reaction.

Compl. specn. 15 pages.

No drawing.

CLASS : 116 H

160709

Int. Cl. : B 66 d 1/00.

## IMPROVEMENTS IN OR RELATING TO WINCHES.

Applicant & Inventor : JOHN THOMAS HIRD WEBB OF INYANGA, FIREBALL HILL, SUNNINGDALE, BERKSHIRE, SL5 9PJ, UNITED KINGDOM, A BRITISH CITIZEN.

Application No. 314/Mas/84 filed April 30, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 15 Claims

A capstan winch comprising at least two contra-rotatable capstans, a first capstan being provided with a rotatable bearing surface for a cable comprising a single groove, and a second capstan being provided with a rotatable bearing surface for a cable comprising a plurality of grooves, wherein the coefficient of friction between said surfaces and the cable material at a cable tension varies stepwise in a plurality of steps along a rotational axis.

Compl. specn. 18 pages.

Drgs. 2 sheets.

CLASS : 188 &amp; 129 Q

160710

Int. Cl. : C 23 b 11/00 &amp; B 32 b 15/20.

STRUCTURES FABRICATED FROM ALUMINIUM COMPONENTS AND PROCESSES INVOLVED IN MAKING THESE STRUCTURES.

Applicant : BL TECHNOLOGY LIMITED, A BRITISH COMPANY, OF 35-38 PORTMAN SQUARE, LONDON W1H 0HQ, GREAT BRITAIN AND ALCAN INTERNATIONAL LIMITED, OF 1188 SHERBROOKE STREET WEST, MONTREAL, QUEBEC, CANADA H 3A 3 GZ, A CANADIAN COMPANY.

Inventor : 1. PATRIK GEORGE SELWOOD, 2. ANTHONY MADDISON, 3. PETER GEOFFREY SHEASBY.

Application for Patent No. 335/Mas/84 filed on 5th May, 1984.

Convention date on 7th May 1983 No. 83/12626 (BRITAIN).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 8 Claims

A structure fabricated from press-formed aluminium components, spot-welded and secured together by adhesive characterised in that the components have been made by press-forming into the desired shapes of aluminium sheet having, at least on areas in contact with adhesive such as herein described, a surface coating containing 10 to 60% by weight of chromium and optionally containing at least 15% phosphate and no more than 10% aluminium, the coating weight of the surface coating lying between 0.01 and 1.5 g/m<sup>2</sup> the adhesive optionally containing between 5 and 70% by weight of aluminium powder.

Compl. specn. 34 pages.

Drg. Nil

CLASS : 85 B

160711

Int. Cl. : F 27 d 1/00.

## A METHOD FOR THERMAL INSULATION OF INDUSTRIAL FURNACE CROWNS.

Applicant : STOPANSKO OBEDINENIE "QUARZ", OF 31, AKSAKOV STREET, SOFIA, BULGARIA, A STATE ECONOMIC CORPORATION ORGANIZED UNDER THE LAWS OF BULGARIA.

Inventors : 1. STOYAN STEFANOV LYUTZKANOV, 2. DIMITAR KOSTADINO BOJKOV.

Application for Patent No. 347/Mas/84 filed on 10th May 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 9 Claims

A method of thermal insulation of industrial furnace crowns and other industrial furnace parts characterised in that on the surface subject to insulation a reinforcing lattice as herein described is built consisting of sectors which are filled by refractory insulation material such as herein described, a protection adhesive layer is applied over the external surface of the said refractory insulation material, the refractory insulation material and the protection adhesive layer hardened under the effect of the heat radiated from the furnace and a thermosensitive layer is applied in a known manner over the protection adhesive layer after the cooling of the furnace.

Compl. specn. 8 pages.

Drg. 2 sheets

CLASS : 67-C

160712

Int. Cl. : F15b 9/00.

A PNEUMATIC SERVO ASSEMBLY FOR AN ELECTROPNEUMATIC CLOSED LOOP CONTROL SYSTEM.

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventor : 1. CHRISTINE BROBST BARNES.

Application No. 125/Cal/84 filed February 2, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 12 Claims

A pneumatic servo assembly for an electro-pneumatic closed loop control system providing a pneumatic output signal in response to a corresponding input signal comprising :

variable restriction means for producing different pneumatic output signals from the pneumatic servo assembly;

motor means for moving said variable restriction means to vary the pneumatic output from the pneumatic servo assembly;

means for actuating said motor means in response to a control signal;

means for establishing a set point signal in response to the electrical input signal indicative of a desired pneumatic output signal;

means for establishing a feedback signal indicative of the pneumatic output signal;

combining means for comparing the set point signal with the feedback signal to establish a control signal to said actuating means.

Compl. specn. 14 pages.

Drg. 1 sheet

CLASS : 27-C&amp;L

160713

Int. Cl. : E04c 2/00.

A LIGHT WEIGHT PRECAST CONCRETE RIBBED PANEL FOR USE IN LOWCOST HOUSES AND LATRINES AND METHOD OF CONSTRUCTING THE SAME.

Applicant & Inventor : MUKULESH METRA, OF C/O SRI A. C. BASU FLAT NO. 7BE/2 "MEGHAMALLAR" 7TH FLOOR, 18/3 GARIAHAT ROAD, CALCUTTA-700 019.

Application No. 174/Cal/84 filed March 9, 1984.

Complete specification left on 8th March 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 34 Claims

A light weight precast concrete ribbed panel for use in low cost houses and latrines characterised in that the membrane of said panel is of reduced thickness than normal such as 10 to 20mm and is provided with auxiliary ribs in addition to two vertical and two horizontal perimeter ribs, said auxiliary ribs running in at least two directions across said membrane.

Compl. specn. 49 pages.

Comp. Drg. 7 sheets

Prov. specn. 5 pages.

Prov. Drg. 2 sheets

CLASS : 98-G

160714

Int. Cl. : F28f 1/00.

APPARATUS FOR HEAT EXCHANGE.

Applicant : GEA LUFTKUEHLERSELLSCHAFT HAPPEL GmbH & CO. KG. OF 4630 BOCHUM, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. KLEMENS RUFF, 2. LUDWIG SUHR.

Application No. 325/Cal/84 filed May 11, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

A heat exchanger apparatus equipped, in a heat exchanger housing with, possibly ribbed heat exchanger pipes situated side by side and one above the other and subjected to the transverse flow of a heat exchanger medium, characterized by the fact that several of heat exchanger pipes are summarized to a package of pipes, which package is movable in the longitudinal direction in the heat exchanger housing.

Compl. specn. 11 pages.

Drg. 2 sheets

CLASS : 62-A<sub>2</sub>, 3 & B.

160715

Int. Cl. : D 06 1 3/00.

A SCOURING AND BLEACHING APPARATUS.

Applicant & Inventor : KIRTI KUMAR SHANTILAL GANDHI, OF HARISH TEXTILE ENGINEERS PVT. LTD., 95 PARK STREET, CALCUTTA-700016, STATE OF WEST BENGAL, INDIA.

Application No. 425/Cal/84 filed June 18, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

A scouring and bleaching apparatus comprising :

a frame structure on which is mounted a tank adapted to contain a solution;

a first and a second roller mounted on top of said frame structure above the said tank by means of bearings and having braking means provided therewith;

either of said first or second roller loaded with a roll of fabric for scouring and bleaching wherein the fabric from the said roller on which it is mounted or loaded is transferred to the other roller passing through the solution contained in the said tank;

guide rollers provided with said tank for guiding the passage of fabric through the solution in the tank is characterised in that there is provided an additional roller being a barbalon roller mounted on an oscillating arm for rotating either the said first or second roller for rolling the fabric on said roller from the other of said roller;

a drive provided to said additional roller mounted on the oscillating arm from a drive means and means provided for shifting the said oscillating arm from one roller to the other roller to alternatively provide a drive to the said other roller for a reverse cycle of operation so as to have a continuous scouring and bleaching effect of the fabric.

Compl. specn. 14 pages.

Drg. 2 sheets

CLASS : 146-D.

160716

6 Claims

Int. Cl. G 01 j 3/00; 3/08.

"SPECTROMETER".

Applicant & Inventor : DR. ING. HERMANN RITZL, OF HAUPTSTRASSE 60, 8031 SEEFELD 2, WEST GERMANY.

Application No. 436/Cal/84 filed June 22, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

A spectrometer comprising :

a light source for exciting a sample;

a motor-adjustable monochromator;

a secondary electron multiplier connected to an adjustable operating voltage source, with, on its output side;

an A-D converter; and

a computer which stores the output signals thereof and the associated wavelength and which controls the position of the monochromator and which regulates the operating voltage source of the secondary electron multiplier in accordance with a stored relationship between the operating voltage and the spectral sensitivity of the spectrometer;

with the wavelength of the radiation as adjusted at the monochromator;

characterised in that disposed in the ray path between the monochromator (3) and the secondary electron multiplier (5a) is a beam splitter (10) which feeds a small fraction of the radiation energy to a second secondary electron multiplier (5b) which is also connected to an operating voltage source (6b) which can be regulated by way of the computer (9);

that the outputs of the two secondary electron multipliers (5a, 5b) are connected to the input of the A-D converter (8) by way of a controllable electrical switch (7) whose control input is connected to the computer (9); and

that the computer causes the monochromator (3) to pass through the spectrum to be investigated a plurality of times continuously in alternate directions, and,

from the respectively stored individual values in respect of radiation intensity;

after removal of the background noise;

computes a mean value.

Compl. specn. 10 pages.

Drg. 1 sheet

CLASS : 15-B

160717

Int. Cl. : F 16 c 9/00.

A CRANKSHAFT BEARING.

Applicant : SPARTA RIJWIJLEN-EN MOTOREN-FA-BRIEK B.V., OF PRINS WILLEM ALEXANDERLAAN 926-932, 7312 GE APELDOORN, THE NETHERLANDS.

Inventor : MIENT NIEUWLAND.

Application No. 523/Cal/84 filed July 21, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

A crankshaft bearing comprising :

a housing wherein a crankshaft fitted with shoulders is rotatably mounted by means of two single-row groove ball bearings;

while each of the ball bearings is received in the housing by means of a synthetic plastics ring fitted with two collars at an interspace of one another corresponding to the width of the ball bearing and extending in-wardly thereof;

characterized in that each synthetic plastics ring consists of at least two identical synthetic plastics ring half-liner portions having the shape of a segment of a circle.

Compl. specn. 6 pages.

Drg. 1 sheet

CLASS : 27-L

160718

Int. Cl. : E 04 c 1/00.

AN IMPROVED REINFORCEMENT BARS.

Applicant & Inventor : (1) DHARAMBIR GADH, OF THE TATA IRON & STEEL COMPANY LIMITED, JAMSHEDPUR, BIHAR, INDIA; AND (2) THE TATA IRON & STEEL COMPANY LIMITED, OF JAMSHEDPUR, BIHAR, INDIA.

Application No. 791/Cal/84 filed November 16, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

An improved reinforcing bar for use as reinforcement in cement concrete construction wherein the bar has two continuous longitudinal ribs oppositely disposed to each other, characterized in that a set of two transverse helically ribs are formed, one set of said helical ribs being on one face of the bar, the face being defined as between the two continuous longitudinal ribs and the two sets of helical ribs being formed one set each on the opposite faces of the bar between the said longitudinal ribs.

Compl. specn. 10 pages.

Drg. 1 sheet

CLASS : 69-A

160719

Int. Cl. : H 01 h 73/00.

IMPROVEMENTS IN OR RELATING TO MOLDED CASE CIRCUIT BREAKER WITH AN APERTURED MOLDED CROSS BAR FOR SUPPORTING A MOVABLE ELECTRICAL CONTACT ARM.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. ALFRED EUGENE MAIER, 2. ROBERT HARBISON FLICK, 3. WALTER KEVIN HUFFMAN.

Application No. 811/Cal/84 filed November 27, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

An electric circuit breaker comprising at least one pair of cooperating contacts, and operating means including an insulating cross-bar which pivotally supports one contact of said or each pair, and is pivotally supported for movement between a contact-open position and a contact-closed position, said one contact of said or each pair being so arranged as, upon current flow therethrough, to be subject to an electro dynamic force varying direct with the current flow and tending to drive the contact to the contact-open position, characterized in that said cross-bar (84) has, at its pivotal connection (110) with each contact (52 or 410 or

450) thereon, a portion (270) which defines a pocket (282); and each contact which is pivotally supported on the cross-bar (84) has an end portion (284 or 412 or 452) adjacent said pivotal connection (110) which is disposed in the associated pocket (282), and has associated therewith restraining means (286, 288 or 414, 416 or 458, 454) which are disposed in the associated pocket (282) and cooperate with said end portion (284 or 412 or 452) of the contact in such manner as to normally constrain the contact (52 or 410 or 450) to move together and in unison with cross-bar (84), and to permit the contact to move to the contact-open position independently of the cross-bar (84) and under the action of said electrodynamic force when the latter exceeds a predetermined level.

Compl. specn. 36 pages.

Drg. 11 sheets

CLASS : 85-J & 12-D

160720

Int. Cl. : C 21 d 9/70.

#### APPARATUS FOR SOAKING STEEL PIECES.

Applicant : KABUSHIKI KAISHA ITOH SEITEI SUSHO, OF 14-10, HIRAI 5-CHOME, EDOGAWA-KU, TOKYO, JAPAN.

Inventor : SEIGO TABUCHI.

Application No. 894/Cal/84 filed December 31, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

An apparatus for soaking steel pieces including cold steel pieces and hot steel pieces, the apparatus being of the type which comprising a soaking furnace for subjecting the steel pieces to a soaking treatment; a preheating chamber for preheating the cold steel pieces before the cold steel pieces are introduced into the soaking furnace. the preheating chamber being connected to the soaking furnace for receiving waste heat from the soaking furnace for the reheating treatment and having an outlet portion for discharging the cold steel pieces; and means for introducing the steel pieces into the soaking furnace and advancing the steel pieces through the soaking furnace, the improvement wherein the soaking furnace comprises :

- (a) a heating zone for heating the steel pieces;
- (b) a soaking zone being communicated to the heating zone and having a heat source for heating the steel pieces, which have been heated in the heating zone, at a higher temperature than in the heating zone for the soaking treatment, the soaking zone having a ceiling higher than a ceiling of the heating zone; and
- (c) means for connecting the heating zone to the preheating chamber for feeding waste heat from the heating zone to the preheating chamber.

Compl. specn. 23 pages.

Drg. 11 sheets

CLASS : 39-C

160721

Int. Cl. : C 01 c 1/00.

#### IMPROVED LOW ENERGY SYNTHESIS LOOP USING TWO STAGE CONVERSION IN TWO RADIAL CONVERTERS AND TWO STAGE SEPARATION PROCESS.

Applicant : PROJECTS & DEVELOPMENT INDIA LIMITED, P.O. SINDRI, PIN 828122, DHANBAD, BIHAR, INDIA.

Inventors : 1. DIPANKAR GHOSH, 2. SURIYANARAYANAN VENKATESAN, 3. S.R. GHOSAL.

Application No. 19/Cal/85 filed January 11, 1985.

Complete Specification left on 9th April, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 claims

An improved process for preparing ammonia from synthesis gas which comprises subjecting synthesis gas to catalytic conversion in two stages with cooling of product stream between the first stage and second stage and treatment of product stream from the second stage in a known manner characterized by the improvement wherein;

- (i) the feed to the first stage converter is made up of recycle gas from the second stage converter and make up synthesis gas;
- (ii) the make up synthesis gas is pre-cooled and dried and then chilled to temperature below room temperature;
- (iii) the make up gas and recycle gas mixture is fed to the first stage converter after indirect heat exchange to about 215°C with the product stream from the first converter;
- (iv) the product stream from the first converter, after indirect heat exchange with the chill stream of mixture of recycle gas and synthesis gas is subjected to refrigeration, ammonia thus condensed is separated;
- (v) the ammonia free product gas stream is fed to a second stage converter after indirect heat exchange to a temperature of about 230°C with the product stream from the second converter;
- (vi) the product stream from the second converter, after indirect heat exchange with the gas stream from the first converter subsequent to being free of ammonia, is refrigerated to remove further ammonia;
- (vii) whereafter the ammonia free product stream from the second converter is partly recycled and partly recovered;
- (viii) the gas stream so recycled being then brought to the pressure of 200 to 260 kg/km<sup>2</sup> of the make-up synthesis gas, mixed with same and fed to the first converter as in step (i); and
- (ix) the ammonia recovered after refrigeration of the first stage product stream and second stage product stream being collected as product.

Provl. Specn. 9 pages.

Drg. Nil

Compl. Specn. 19 pages.

Drg. 1 sheet

CLASS. 146-D<sub>a</sub>.

160722

Int. Cl. : B 44 f 1/00; G 02 b 27/20.

#### ALIGNED MICRO-EPISCOPE.

Applicant : THE SECRETARY, RAMAKRISHNA MISSION VIDYAPITH, PURULI, P.O. VIVEKANANDANAGAR, DIST. PURULIA, WEST BENGAL.

Inventors : 1. SWAMI SRADDHANANDA PURI, 2. SRI KALIDAS GUHATHAKURTA.

Application No. 61/Cal/85 filed January 31, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

An aligned micro-episcopes, for projection of distinct image of plane opaque micro-objects with great magnification on a distant screen, comprising a metal frame in a metallic housing with ventilation arrangement wherein a metallic paraboloidal, (white and highly polished) light-throwing reflector (with focus at the middle of its depth) is provided with a thin flat annular colourless glass-sheet carrying at its centre a co-axially welded plano-convex colourless lens (of focal

length three-fourth of the depth and diameter half of the base-diameter of the reflector) and fitted co-axially on the base of the reflector, by means of an annular threaded metallic cap, to have the convex face of the lens inside, the reflector being able to throw a fairly parallel beam of light about its axis and fitted in the housing with its axis nearly horizontal (in order to avoid any swelling of the glass of the projection bulb); a metallic paraboloidal, (white and highly polished) light-receiving reflector, with a vertex hole and of identical parameters with the light-throwing reflector, is fitted in the housing co-axially with and closely facing the light-throwing reflector, keeping only a small gap for ventilation; a metallic carrier rail, to carry a metallic micro-object holder, is fitted into the light-receiving reflector in its focal plane normal to its axis, through two diametrically opposite slots provided on its surface, such that the rails face its vertex hole; an objective lens (as of compound microscope), fitted co-axially into a metallic objective holder pipe at its inner end, is held co-axially in the vertex hole of the light-receiving reflector by means of a metallic sleeve, fixed in position, such that the objective lens may be moved inward or outward by moving the objective holder pipe to receive properly the beam of light reflected by the plane opaque micro-object (held in the micro-object holder) for projecting a distinct image of the micro-object on a distant screen; a projection bulb fitted upright on the housing base through an aperture provided in the light-throwing reflector, so that its filament is set in the focal plane of the reflector normal to and symmetrically about its axis, whereby a fairly parallel beam of light emerges from the light-throwing unit about its axis when the bulb is on the arrangement being such that all the optical parts have its axes aligned, so that the beam of light from the projection bulb moves about a straight line all through-out and the loss of light due to scattering is mostly avoided thereby.

Compl. Specn. 12 pages.

Drg. 1 sheet.

CLASS : 145 E.

160723

Int. Cl. : D 21 d 5/00.

"METHOD AND APPARATUS FOR DEINKING FIBROUS WASTE PAPER STOCK OR SLURRY".

Applicant : BELOIT WALMSLEY LIMITED OF WOOD STREET, BURU, LANCASHIRE, RI.8 2OT, ENGLAND, A BRITISH COMPANY.

Inventors : 1. ASHOK KUMAR NANDA, 2. LUIGI SILVERI, 3. MICHAEL ANTONY MCCOOL.

Application for Patent No. 272/Mas/1984 dated on 18th April 1984.

Convention date on 19th April 1983. No. 8310494. (U.K.)

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

24 Claims

A method of deinking fibrous waste paper stock or slurry comprising introducing air into the slurry so that bubbles of air come into contact with and take up the ink particles and separating the ink-laden air bubbles from the fibre slurry characterised by the following three steps, each controlled independently of the others, viz : (1) introducing the air into the slurry; (2) intimately mixing the air bubbles and the slurry together; and (3) separating the ink-laden air bubbles from the fibre slurry.

(Complete Specification 12 pages

Drawings 2 sheets)

CLASS : 116C.

160724

Int. Cl. : B 65 g 15/10, 15/20.

"AN APPARATUS FOR ELEVATING DIVIDED SOLIDS".

Applicant : SPEED UP HOLDINGS LIMITED, A BRITISH COMPANY OF 3 CASTLE ROAD, COTTINGHAM, HULL, HUMBERSIDE, ENGLAND.

Inventor : MICHEL BRYON OSBORNE.

Application for Patent No. 276/Mas/84 filed on 19th April 1984.

Convention date : 19th April 1983. No. 8310537. (Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

7 Claims

Apparatus for elevating divided solids comprising duct means for supporting a column of divided solids in free flowing conditions between an inlet means to the lower regions of said column and an outlet from the upper regions of said column wherein the inlet means comprise a duct-like entry to the lower regions of the column and the said duct-like entry is at least partially defined by a surface movable to frictionally convey divided solids in said duct-like entry into the lower regions of the column of divided solids.

(Complete Specification 17 Pages

Drg. 3 Sheets)

CLASS : 206 C.

160725

Int. Cl. : G 06 f 15/46.

A DIGITAL MOVING TARGET DETECTOR PROCESSOR.

Applicant : SELENIA INDUSTRIE ELETTRONICHE ASSOCIATE S.P.A. OF VIA TIBURTINA KM 12.400, 00131—ROME—ITALY, OF ITALIAN NATIONALITY.

Inventors : 1. D'ADDIO EGIDIO 2. GALATI GASPARE 3. GLACCARI ENNIO.

Application No. 277/Mas/84 filed on 19th April 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

12 Claims

A digital Moving Target Detector (MTD) processor which can be inserted between coherent video detector and a signal extractor in a surveillance radar, the said processor comprising :

an analog/digital converter connected to said video detector;

a multiplicity of Doppler filters with inputs connected in parallel to said converter;

evaluation means disposed between said filters and said signal extractor;

environment-responsive sensing means for registering clutter distribution for the area surveyed by the radar; and

modification means controlled by said sensing means for varying the characteristics of said filters in accordance with clutter conditions prevailing in different regions of the surveyed area.

(Complete Specification 21 Pages

Drgs. 4 Sheets)

CLASS : 70 B

160726

Int. Cl. : B 01 k 5/00.

"APPARATUS FOR ELECTROPHORESIS WITH POLY-ACRYLAMIDE-GELS WITH AN ORIENTED CURRENT FIELD."

Applicant : REANAL FINOMVEGYSZERGYAR. OF 1441. HUNGARY, BUDAPEST, TELEPESU. 53 A HUNGARIAN COMPANY.

Inventors : BELA SZAJANI. 2. JOZSEF KARACSONY.  
3. JOZSEF DALA 4. ATTILA HEVESI.

Application for Patent No. 417/Mas/84 filed on 7th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 4 Claims

Apparatus for electrophoresis with polyacrylamidegel with an oriented current-field, comprising cylindrical lower and upper buffer tanks, the gel-containing recipients discharging into the said buffer tanks, wherein in every buffer tank an electrode carrying cylinder is arranged co-axially with the symmetry axis of the tank and in every electrode carrying cylinder there is a centralized electrode spool shaft the electrodes are spiral wound from a platinum wire which are fixed in the grooves on the electrode spool shaft holes facing the gel-recipients are formed on the mantle of each electrode carrying cylinder in opposite of the electrodes.

(Complete Specification 12 Pages Drg : 1 Sheet)

CLASS 116-G, 134-D 160727

Int. Cl. B 65 b 35/00.

**AN APPARATUS FOR PRODUCING STACKS OF FLEXIBLE FLAT PRODUCTS, ESPECIALLY PRINTED PRODUCTS.**

Applicant : FERAG AG, OF 8340 HINWIL, SWITZERLAND, A COMPANY INCORPORATED UNDER THE LAWS OF SWITZERLAND.

Inventors : EGON HANSCH.

Application No. 461/MAS/84 filed on 26th June 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 29 Claims

An apparatus for producing stacks of flexible, substantially flat products, especially printed products, comprising :

feeding means for feeding said products and sliding the same during a slide-on operation in a predetermined slide-on direction upon each other in order to form a stack defining a rearmost positioned product and a next following product;

pressing means acting upon each said rearmost positioned product at a predetermined pressing location;

said pressing location being located in front of a leading edge defined by said next following product in said predetermined product slide-on direction thereof; and

said pressing location being displaceable conjointly with said next following product in said predetermined product slide-on direction thereof during the slide-on operation.

(Complete specification 42 pages) (Drgs. 7 sheets).

CLASS : 33 F. 160728

Int. Cl. B 22 c 1/00.

**A FOUNDRY SAND COMPOSITION FOR PREPARING A MOUND OR CORE THEREFROM AND A METHOD OF PREPARING THE SAME.**

Applicant : INDIAN INSTITUTE OF TECHNOLOGY IIT P.O. MADRAS 600 036 TAMIL NADU, INDIA AN AUTONOMOUS BODY SET UP BY THE GOVERNMENT OF INDIA UNDER AN ACT OF PARLIAMENT.

Inventors : 1. DR. ORUGANTI PRAHAKAR 2. DR. DEVENAYAKA GANPATHI RAM SHARMA

Application No. 488/MAS/84 filed on 5th July 1984

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 6 Claims

A foundry sand composition for preparing a mould or core therefrom comprising a mixture of silica sand and 4% —6% by weight of sodium silicate characterised by the presence therein of a reactant constituted by a thermite agent comprising aluminium and iron oxide in powder form together with magnesium substantially in the proportion sodium silicate : iron Oxide : aluminium : magnesium = 20 : 5 : 2 : 3.

(Complete specification 6 pages. Drg. 1 sheet)

CLASS : 157 D 3. 160729

Int. Cl. E 01 b 7/00, 25/00.

**POURING TANK TRANSFER CAR INCLUDING TRACK ASSEMBLY.**

Applicant : AMSTED INDUSTRIES INCORPORATED, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, OF 3700 PRUDENTIAL PLAZA, CHICAGO, ILLINOIS, 60601, U.S.A.

Inventors : LYMAN WOOD JEFFREYS.

Application No. 512/MAS/84 filed on 16th July 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 4 Claims

A pouring tank transfer car including track assembly comprising :

a first set of parallel support rails and a first guide rail paralleling said first set of parallel support rails,

a second set of parallel support rails and a second guide rail paralleling said second set of parallel support rails,

said first and second set of parallel support rails intersecting at one or more locations, and said first and second guide rails located at opposite outward sides of said respective support rails so as to not intersect each other,

and a transfer car having two sets of parallel flangeless wheels adapted to roll along one of said sets of parallel support rails, and guide means extending from one side of said transfer car to engage the respective guide rail in a manner such that the transfer car is thereby held laterally stable on the set of support rails.

(Complete specification 9 pages. Drg. 1 sheet).

CLASS : 3 A & 5B. 160730

Int. Cl. : C 82 d 1/02 & 1/84.

**A METHOD AND APPARATUS FOR PRODUCING GAS IMPREGNATED LIQUID.**

Applicant : TECHNICA ENTWICKLUNGSGESELLSCHAFT MBH & CO. KG OF ROBERT-BOSCH-STRASSE 4-6. 2418 RATZBURG WEST GERMANY, A WEST GERMAN COMPANY.

Inventors : (1) ALEXANDER KUCKENS AND (2) HORST KOHL.

Application for Patent No. 517/MAS/84 filed on 17th July 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 24 Claims

A method of producing gas impregnated liquid by introducing the liquid from a liquid source in free flow and under pressure into one end of a linearly elongated flow channel



and discharging the liquid from the outlet and of the flow channel so that the liquid flow completely fills of the cross section of said flow channel;

abruptly changing flow rate and pressure of the liquid flow at least at two different cross section planes of the flow channel by forcing the outer layers of the cross section of the liquid flow to abruptly flow in a step-like manner radially outwards and then again in axial direction so that the overall cross section area of liquid flow stepwise increases at said different cross section planes; and by freely contacting the outer layers of the liquid flow with the gas from a gas source under a pressure lower than that of the liquid source at several small areas circumferentially distributed so that the contact between liquid and gas takes place just where the outer flow layers are changing their flow directions from flowing radially outward to again flowing axially.

(Complete specification 20 pages. Drgs. 3 sheets).

CLASS : 60 B 160731

Int. Cl. B 21 d 53/48.

B 29 d 19/00.

"BUTTON".

Applicant : SCOVILL JAPAN KABUSHIKI KAISHA, A JAPANESE CORPORATION LOCATED AT 22-1, ICHIBANCHO, CHIYODA-KU, TOKYO, JAPAN.

Inventor : AKIHIKO TAKATA.

Application for Patent No. 552/Mas/1984, filed on 28th July 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972). The Patent Office, Madras Branch.

#### 6 claims

An attaching button for attaching a fastener member to a fabric by the application of a mechanical force comprising :

a button head of rigid polyester resin with an outer surface and an internal cavity having an inlet and an internally expanded surface, and

a metallic leg piece comprised of a hollow base and at least one leg, said base being circular in cross section and having an outer periphery slight larger in diameter than the inlet of the cavity, said base having a first surface shaped to complement the internal surface of said cavity and a flat annular surface, said at least one leg extending outwardly from said second base surface.

(Complete specification 10 pages. Drgs. 2 sheets)

CLASS : 60 D. 160732

Int. Cl. A 44 b 17/00.

SOCKET FOR SNAP FASTENER.

Applicant : SCOVILL JAPAN KABUSHIKI KAISHA, A JAPANESE CORPORATION OF 22-1, ICHIBANCHO, CHIYODA-KU, TOKYO, JAPAN.

Inventors : YOSHI HIKO HASEGAWA.

Application No. 553/MAS/84 filed on 28th July 1984.

Appropriate office for opposition proceeding (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

#### 4 claims

A socket for a snap fastener, which comprises a metal spring button part including an annular base, an inner portion extending inwardly and downwardly from the inner portion, of said annular base, and further extending inwardly and upwardly and split in to flaps which terminate with tongues arranged circularly for elastic engagement with a stud as the male member of the snap fastener, an outer portion curvedly extending outwardly and downwardly from the outer portion of said annular base and then inwardly to form

portions to guide and receive the legs of a backing member of the snap fastener, and a cover plate having a circular opening of a bigger diameter than the diameter of the circle defined by said tongues but small enough to prevent the tongues from excessive flexing when the tongues are engaged with the stud and pulled sideways by said stud, said cover plate being secured to the periphery on the tongue side of said annular base.

(Complete specification 6 pages. Drgs. 2 sheets).

CLASS : 88 C D & 195 d. 160733

Int. Class : F 17C 13/00 & F 16 J 15/48.

"SEALING RING FOR L P GAS CYLINDER VALVE".

Applicant : BAL KRISHAN GUPTA, L-3, HAUZ KHAS ENCLAVE, NEW DELHI-110 016, INDIA.

Inventor : BAL KRISHAN GUPTA.

Application for Patent No. 397/DEL/1984 filed on 11th May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 2 claims

Sealing Ring for L P Gas Cylinder Valve which comprises of having alround groove at the bottom of the sealing ring, the outer side of the groove being longer than the inner side to enable the flow of gas into the groove.

(Complete specification 5 pages. Drg. 1 sheet).

CLASS : 69 I N. 160734

Int. Class : H01h--9/00.

"GAS BLAST INTERRUPTERS".

Applicant : BRUSH SWITCHGEAR LIMITED, A BRITISH COMPANY, OF P.O. BOX-19, LOUGHBOROUGH, LEICESTERSHIRE LE11 1HL, ENGLAND.

Inventors : JOHN STANLEY STEWART & STANISLAW MIECZYSLAW GONEK.

Application for patent No. 425/Del/84 filed on 21st May, 1984.

Divisional to application No. 4/Del/81 filed on 1st January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 4 Claims

A gas-blast type interrupter comprising :

- (a) first and second electrodes which are relatively movable between a closed position wherein they are in mutual electrical engagement and an open position wherein they are mutually separated, movement of the electrodes from their closed to their open position causing an arc to be drawn there-between in use, the first electrode including a tubular portion having a first set of contact formations thereon and a probe surrounded by the tubular portion, the second electrode including a tubular portion having a second set of contact formations thereon, the first set of contact formations slidably engaging the second electrode and the second set of contact formations slidably engaging the probe when the electrodes are in their closed position, and the first set of contact formations disengaging from the second electrode before the second set of contact formations disengage from the probe during movement of the electrodes towards their open position;

- (b) a tubular housing enclosing the first electrode and being fixed against movement relative thereto;
- (c) a tubular guide co-axially surrounding the housing and also being fixed against movement relative to the first electrode;
- (d) an annular chamber defined between the housing and the guide, into which pressurised gas is supplied upon movement of the electrodes from their closed position towards their open position;
- (e) a first insulating orifice provided in the tubular housing, through which the second electrode substantially sealingly passes when the electrodes are in their closed position, the second electrode passing out of the first insulating orifice during movement of the electrodes towards their open position thereby permitting the pressurised gas from said annular chamber to flow through the first insulating orifice into the interior of the tubular housing in a direction essentially along said arc; and
- (f) a second insulating orifice provided in the tubular guide, through which the second electrode also substantially sealingly passes when the electrodes are in their closed position, the second electrode passing out of the second insulating orifice during movement of the electrodes towards their open position thereby permitting the pressurised gas from said annular chamber also to flow through the second insulating orifice in a direction opposed to the direction of gas flow through the first insulating orifice, the first and second insulating orifices being co-axial and of essentially the same size.

(Complete specification 17 pages Drawing 4 sheets).

CLASS : 145A 155D. 160735.

Int. Class : D 21h-1/24.

"A BOARD OF SANDWICH CONSTRUCTION AND METHOD OF MANUFACTURING SUCH BOARD".

Applicant : REDLAND TECHNOLOGY LIMITED, of Redland House, Reigate, Surrey RH2 0SJ, United Kingdom, a British company.

Inventors : GEOFFREY WALLACE ASTON, PAUL CHAPMAN, SUSAN SMITH & HOWARD ANTHONY BARKER.

Application for patent No. 435/Del/84 filed on 25th May, 1984.

Convention date 2-6-83/8315164/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 17 Claims

A board of sandwich construction which comprises two outer preformed support memberances consisting of or comprising fibrous material, the said membranes having interposed there between an aerated intermediate layer characterised in that said intermediate layer comprises from 70% to 95% by weight based on the dry board of an unfired clay which contains less than 20% by weight of expandable clay minerals such as herein described and the intermediate layer also including therein fibres as herein described.

(Complete specification 21 pages Drawing 1 sheet).

CLASS : 94 G. 160736.

Int. CLASS : B02 C—13/00, 18/06.

"APPARATUS FOR COMMINUATION OF VEGETABLE MATTER".

Applicant : KLEMENS KALVERKAMP, a German citizen, of Warendorferstrasse 265, D-4730 Ahlen/Westfalia, Federal Republic of Germany.

Inventor : KLEMENS KALVERKAMP.

Application for patent No. 441/Del/84 filed on 29th May, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 10 Claims

Apparatus for the comminution of vegetable material such as herein described comprising a housing, a rotor provided therein, therein, a drive for said rotor supported rotatably movably in the housing, a plurality of movable knives on said rotor characterised by a plurality of stationary knives located on the inner surface of the housing and cooperating with said movable knives, wherein the movable knives are inclined rearwardly in direction of movement of the rotor and their cutting edges forming tangential lines on a imaginary circle concentric to the axis of rotation in such an arrangement, the cutting edges of said movable and the stationary knives being in a shear-shaped angle-position to one another, whereby the angle amounts to between 5° and 30°.

(Complete specification 16 pages Drawing 6 sheets).

CLASS : 184 & 27L & I. 160737.

Int. CLASS : E03b 11/00, E04h 7/18 & B 65d 13/00.

"AN OVERHEAD WATER STORAGE TANK".

Applicant : PECK INDIA, a proprietorship firm whose proprietor is RAJKUMAR SHARMA, Kaithal, Dist. Kurukshetra, Haryana, India, an Indian National.

Inventor : RAJKUMAR SHARMA.

Application for patent No. 444/Del/1984 filed on 31st May, 1984.

Complete specification left on 2nd September, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-5.

#### 3 Claims

An overhead storage tank comprising a plurality of precast cement concrete modules, namely at least one base module, four sidewall modules, an upperwall module, and four supporting arm modules secured together, the base module having a groove extending along its four sides for locating the side modules and a hole at each corner in which a pin fixed to lower end of each of the supporting arm modules is located and said upperwall module having a hole at each corner thereof in which a pin fixed to upper end of each of said supporting arm modules is located.

(Complete specification 8 pages) (Drawing one sheet).

CLASS : 195D 160738

Int. Cl. : E 03 C 1/02.

A WATER TAP SUPPORTING DEVICE.

Applicant : PECK INDIA, A PROPRIETORSHIP FIRM WHERE PROPRIETOR IS RAJKUMAR SHARMA, KAITHAL, DISTT. KURUKSHETRA, HARYANA, INDIA, AN-INDIAN NATIONAL.

Inventor : RAJKUMAR SHARMA.

Application for Patent No. 445/Del/1984 filed on 31st May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

#### 6 Claims

A water tap supporting device comprising a precast platform module, at least a single precast outer ring module and a precast vertical post module, each of said modules being made of reinforced cement concrete, the platform module consisting of a plurality of sub-modules each having

jointing surfaces through which adjacent sub-modules are secured to each other, said outer ring module having an inwardly extending annular ledge for supporting the outer part of said platform, all the said modules being secured together by cement slurry.

Compl. specn. 10 pages.

Drg. 1 sheet

CLASS : 98 G

160739

Int. Cl. : F28 d 15/00.

**"PROCESS AND APPARATUS FOR THE MANUFACTURE OF GAS".**

Applicant : L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCÉDES GEORGES CLAUDE, A FRENCH BODY CORPORATION, OF 75, QUAI D'ORSAY, 75007 PARIS, FRANCE.

Inventor : PIERRE PETIT, MAURICE GRENIER & JEAN-FRANCOIS DESCHAMPS.

Application for Patent No. 510/Del/84 filed on 25th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

**27 Claims**

A process for the manufacture of gas, comprising :

vapourising a liquid which is a liquified form of said gas by heat exchange with a second fluid by means of a heat exchanger comprising a parallelepiped body formed by an assembly of parallel vertical plates defining therebetween a multitude of flat passages;

said process comprising sending the second fluid into a second group of passages constituting the remaining passages of said passages defined between said plates;

distributing the liquid in two stages at an upper end of the passages of said first group of passages throughout the horizontal length of said first group of passages;

said two stages comprising a rough predistribution of the liquid throughout the length of passages of said first group of passages; and

then a fine distribution of the thus predistributed liquid throughout the length of said passages and withdrawing the vaporised gas from the heat exchanger.

Compl. specn. 18 pages.

Drg. 5 sheets

CLASS : 26

160740

Int. Cl. : A46b 3/00.

**"BROOM BODY WITH ARTIFICIAL BOUGHS".**

Applicant : JACKIE ANDRE DE RUYTER, OF 32 RUE DE LA CIGALE, 68200 MULHOUSE, FRANCE.

Inventor : JACKIE ANDRE DE RUYTER.

Application for Patent No. 521/Del/84 filed on 27th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

**7 Claims**

A broom body with artificial boughs comprising :

an elongated tubular socket for receiving a broom handle axially therein;

the socket having on a cylindrical part thereof two longitudinal slots for defining two half shells capable of being elastically brought circumferentially closer;

the socket having a portion in the shape of a truncated cone with three guide collars/discs disposed axially spaced on said portion;

said collars each having an outer diameter greater than the outer diameter of the socket;

a plurality of similar artificial boughs with twigs thereon and each having a ring at its upper end;

the rings being disposed in assembly on the socket circumferentially of a corresponding collar;

the artificial boughs being spaced circumferentially from each other on the socket; and

an elongated cover sleeve having a length at least approximately that of the socket and removably mounted in use in assembly circumferentially of the socket and said rings spaced axially on the socket; and

the cover sleeve having an internal dimension for effectively removably holding said rings on the respective collars to effectively hold said boughs in place assembled on the socket.

Compl. specification 16 pages.

Drg. 4 sheets

CLASS : 195 B

160741

Int. Cl. : F16k 17/00.

**"COMBINATION OF MAIN VALVE AND PILOT VALVE".**

Applicant : VAPOR CORPORATION, A DELAWARE CORPORATION, OF 6420 W. HOWARD STREET, CHICAGO, ILLINOIS 60648, UNITED STATES OF AMERICA.

Inventor : RAYMOND GRANT REIP.

Application for Patent No. 566/Del/84 filed on 11th July, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

**11 Claims**

Combination of main valve and pilot valve comprising :

a main valve having a body with an inlet and an outlet, a chamber in said body, a piston reciprocally mounted in said chamber between said inlet and said outlet to control flow therebetween, characterised in;

a pilot valve having a piston chamber, a differential area piston reciprocally mounted in said piston chamber;

first means communicating said piston chamber with said main valve chamber;

second means communicating one end of said pilot piston with said inlet of said main valve;

an inlet valve in said pilot valve, third means communicating said inlet valve with said inlet of said main valve, actuable means for communicating said inlet valve with said piston chamber, and actuating means on said pilot piston for actuating said actuable means.

Compl. specn. 18 pages.

Drg. 6 sheets

CLASS : 188

160742

Int. Cl. : C 04 b, 41/14, C 23 e, 3/02  
Ho5k & 1/00.**"AN IMPROVED METHOD FOR THE PRODUCTION OF PRINTING CIRCUIT BOARDS".**

Inventors : YU-LING TENG &amp; RICHARD MAYERNIK.

Application for Patent No. 595/Del/84 filed on 23rd July, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

**14 Claims**

A method for the production of printed circuit boards by treating a substrate such as herein described with a solution comprising :

a reducible metal salt of the kind described herein of a non-noble metal and a light radiation sensitive reducing compound selected from quinones, benzoquinones, anthraquinones and derivatives thereof, and anthraquinone disulfonic acids and salt thereof;

exposing the treated substrate to light radiant energy to reduce the metal salt to form reduced metal nuclei; and

immersing the substrate in an electroless metal deposition bath to deposit a conductive metal pattern on the reduced metal nuclei to form the printed circuit boards;

the improvement comprising treating the exposed substrate prior to electrolessly depositing metal with a fixing solution comprising a complexing agent of the kind described herein for the non-noble metal and a light sensitive reducing compound of the kind such as herein described;

said fixing solution being maintained so that to the concentration of the light sensitive reducing compound in the fixing solution does not exceed 0.4 m moles/liter.

Complete specification 27 pages.

CLASS : 188 &amp; 70C1

160743

Int. Cl. : C 23 b 5/00, 5/10, 5/50.

**"APPARATUS FOR GALVANIZING TO CONSECUTIVELY PRODUCING TWO DIFFERENT METAL ALLOY COATINGS ON A METAL BAND".**

Applicant : FABRIQUE DE FER DE MAUBEUGE, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF FRANCE, OF 22, AVENUE ABBE JEAN DE BECO, LOUVROIL, NORD, FRANCE.

Inventor : GUY GERALD.

Application for Patent No. 645/Del/1984 filed on 13th August, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**5 Claims**

Apparatus for galvanizing to consecutively produce at least two different metal alloy coatings on a metal band comprising :

a fixed tank containing a first bath of molten metal alloy;

means for advancing said metal band in said molten metal alloy bath;

said advancing means being connected to a fixed support; guiding means connected to said fixed support and immersed in said bath for guiding said metal band in said bath;

a removable tank having an internal volume which is larger than the volume of the zone of the first bath in which said advancing means and guide means are located and smaller than the volume of said fixed tank;

said removable tank containing a second bath of a molten metal alloy different from the alloy bath contained in said fixed tank and being suspended in said fixed tank and suspension means connected to said fixed support and said removable tank for suspending said removable tank in said fixed tank.

Compl. specn. 9 pages.

Drg. 1 sheet

CLASS : 48 C &amp; 25 B

160744

Int. Cl. : C 04 b 33/26.

**"AN IMPROVED PROCESS OF PREPARING ALUMINA PORCELAIN".**

Applicant : BHARAT HEAVY ELECTRICALS LIMITED OF 18-20 KASTURBA GANDHI MARG, NEW DELHI-110 001, INDIA, AN INDIAN COMPANY.

Inventor : SURAVARAPU VENKATA KRISHNA RAO.

Application for Patent No. 647/Del/1984 filed on 13th August, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**8 Claims**

An improved process of preparing alumina porcelain which comprises :

wet mixing alumina;

clay and nepheline syenite using water;

grinding the wet mix in presence of talc followed by drying the wet ground mix;

thereafter adding conventional binder such as polyvinyl alcohol;

dextrin or sodium silicate to the dry mix thus obtained; granulating the binder added mix;

thereafter subjecting the granules to a step of compaction or extrusion to obtain the required shape of the refractory material which is then subjected to sintering at temperatures in the range of 1250°C to 1350°C.

Complete specification 9 pages.

CLASS : 19B1

160745

Int. Cl. : F 16 b 39/00.

**"LOCKING NUT".**

Applicant : SKF NOVA, OF S-415 50 GÖTEBORG, SWEDEN, A SWEDISH COMPANY.

Inventor : BENGT LUNDGREN.

Application for Patent No. 687/Del/84 filed on 29th August, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

**8 Claims**

A nut lockable against accidental rotation and comprising an element (4, 5, 6, 7) having a surface facing radially inwardly into the bore of the nut, said surface being provided with a thread portion, and the element being arranged in a recess in the nut open towards the centre of the nut, means

(8, 9, 10, 11) being provided for displacing the element radially in the recess.

characterized in

the atleast a portion (12, 13, 14, 15) of the element is elastically deformable and urges the element radially outwardly by an elastic pre-stressing force when the element takes its radially inner-most position in the recess.

Compl. Specn. 9 pages.

Drgs. 1 sheet.

CLASS : 94 GI.

160746.

Int. Cl. : C 13 c 1/04 & A 01 d 49/00.

**APPARATUS FOR CUTTING AND SHREDDING STALK-TYPE PLANT PRODUCTS SUCH AS SUGAR CANE.**

Applicant : FABCON INCORPORATED, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, U.S.A., OF 965 MISSION STREET, SUITE 730, SAN FRANCISCO, CALIFORNIA 94103, UNITED STATES OF AMERICA.

Inventors : JOSEPH CHRISTOPHE VICTOR DUCASSE.

Application for Patent No. 769/DEL/1984 filed on the 1st October, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

#### 6 CLAIMS

An apparatus for cutting and shredding stalk-type plant products such as sugar cane, said apparatus comprising a first rotor device having a longitudinal axis and knife blades extending substantially radially therefrom; a second rotor device having a longitudinal axis and hammer members extending substantially radially therefrom; means for mounting said first and second rotor devices with said axis thereof extending parallel to each other and with outer ends of said knife blades being adjacent outer ends of said hammer members at a nip position between said first and second rotor devices, thereby defining a generally wedge-shaped entrance area between said first and second rotor devices; a chute member above said second rotor device; an anvil device yieldably mounted adjacent outer ends of said hammer members at a side of said second rotor device substantially opposite said wedge-shaped entrance; means for feeding plant products into said wedge-shaped entrance area; drive means for rotating said first and second rotor devices about said respective axes thereof such that the plant products fed to said wedge-shaped entrance are subjected dual action by said knife blades and said hammer members at said nip position, thereby cutting and grinding the plant products and throwing the thus cut and ground pieces of plant products upwardly against said chute member, whereafter said pieces of plant products drop downwardly for shredding of said pieces of plant products between said hammer members and said anvil device.

Compl. Specn. 15 pages.

Drgs. 4 sheets.

CLASS : 32F<sub>2</sub>(c) & 39F.

160747.

Int. Cl. : C07c 119/04.

**"PROCESS FOR PRODUCING ALKALI METAL CYANATES".**

Applicant : FMC CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, HAVING A PLACE OF BUSINESS AT 2000 MARKET STREET, PHILADELPHIA, PENNSYLVANIA 19103, UNITED STATES OF AMERICA.

Inventors : WILLIAM BEVERLY DODGE & MARC HALFTON.

Application for Patent No. 792/Del/84 filed on 10th October, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

#### 7 Claims

A process for producing an alkali metal cyanate characterised by heating urea with an alkali metal carbonate in a solvent which selectively dissolves the urea, but not the alkali metal carbonate.

Compl. Specn. 6 pages.

CLASS : 32 F. 3 D.

160748.

Int. Cl. : C 07 C 167/00.

**A PROCESS FOR SEPARATION OF STIGMASTEROL-DERIVED PRODUCTS FROM PHYTOSTEROLS OF SUGARCANE WAX.**

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : RAJAT BARAN MITRA, VIJAYA MUNILAL KAPOOR, BRAJA GOPAL HAZRA.

Application for Patent No. 837/DEL/1984 filed on the 29th October, 1984. Complete specification left on, the 05th December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

#### 5 Claims

A process for the separation of stigmasterol derived products from phytosterols of sugarcane wax comprises treating the crude phytosterol mixture from sugar cane wax with tosyl chloride to obtain crude 3-B tosylate, which is solvolyzed to produce 3L-5 cyclo-6-B-ol which is subjected to Jones oxidation to give a mixture of 3L-5 cyclo-6-keto steroid which is treated with osmium tetroxide and excess N-methyl-morpholine-N-oxide to produce a mixture of a compound of the formula I (a) where X is hydrogen (22, 23, dihydro compound) and I (c) where X is OH, the mixture is treated with dry methanol and calcium chloride when a part of the compound of the formula I (a) separates out, filtering and drying the residue, the methanolic filtrate is evaporated and extracted with a solvent evaporating the solvent to produce more compounds of the formula I (a), treating the residue with water to give the diols of the formulae I (b & c).

Prov. Specn. 4 pages.

Compl. Specn. 15 pages.

Drgs. 1 sheet.

CLASS : 208.

160749.

Int. Cl. : B43K 7/12, 29/00, 29/10, 24/06.

**"RETRACTABLE WRITING INSTRUMENT HAVING A FILM STRIP VIEWER".**

Applicant : KINGSWAY ENTERPRISES PVT. LTD. AN INDIAN COMPANY OF 2, SHAM NATH MARG, DELHI-110 054, INDIA.

Inventor : RAVI PRAKASH GUPTA.

Application for Patent No. 844/Del/1984 filed on 30th October, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

#### 6 Claims

A retractable writing instrument having a film strip viewer, comprising a casing or housing, and an actuator for displacing the writing component into an inward or retracted position or an outward or exposed position, which actuator is located within the housing or casing, a clip retainer member secured to the end of the casing opposite to the writing end

of the instrument characterised in that the clip retainer member has an eyepiece lens within its outer end and a mirror located within the inner end of the retainer member housed in the casing or housing, at least one film strip surrounding the actuator and located opposite to a slot in the casing or housing, which slot transmits light into the casing or housing, and onto the film strip and the images on the different frames of the film strip being viewable through the eyepiece lens on the rotation of the actuator.

Compl. Specn. 9 pages.

Drgs. 1 sheet.

CLASS : 50D & 196 B<sub>1</sub> & 2 C.

160750.

Int. Cl. : F 28C 1/00.

#### "IMPROVED AIR COOLER".

Applicant : KRISHNA KUMAR CHETAL, OF 141-147 ELECTRIC ROAD, 4TH FLOOR BLOCK "B", HONG KONG, AN INDIAN NATIONAL.

Inventor : KRISHNA KUMAR CHETAL.

Application for Patent No. 894/Del/84 filed on 26th November, 1984.

Complete specification left on 24th June, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

#### 4 Claims

An improved aircooler comprising an enclosure divided into two compartments, a first compartment housing a fan, a dividing means and a water tank, said water tank being located at the bottom of said first compartment, and a second compartment housing an electric motor and a pump, said enclosure being enclosed on three sides by khush pads, the top being covered by a heat resistant sheet and the front side accommodating a perforated cover divided into two sections, being an upper section and a lower section, said upper section for ejecting cooled air and said lower section for drawing in air, said dividing means being located between said fan and perforated cover so that rotation of said fan causes, the cooled air to eject out from said upper portion and simultaneously draws in air from the surroundings through said lower portion, cooled air being produced by pumping of water by said pump from said water tank to a hole in a distributor plate located above said khush pads, said plate having a plurality of mini canals diverging from said hole to said khush pads thereby causing the water to drip and cool the enclosed portion.

Compl. Specn. 8 pages.

Drgs. 2 sheets.

CLASS : 128 A.

160751.

Int. Cl. : A61 f 13/00.

#### "A METHOD OF MAKING AN ANTIMICROBIAL PRODUCT".

Applicant : UOP INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE IN THE UNITED STATES OF AMERICA, WITH ITS PRINCIPAL PLACE OF BUSINESS LOCATED AT TEN UOP PLAZA, AIGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS 60016, U.S.A.

Inventor : LOUIS JOHN DEFILIPPI.

Application for Patent No. 940/Del/84 on 27th November, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

#### 9 Claims

A method of making an antimicrobial product comprising contacting a fabric with an aminoalkylsilane so as to form an aminoalkylsilylated fabric, reacting the terminal amino functionality with one terminus of any polyfunctional reagent so as to form a covalent bond between the amino functionality and said terminus, thereafter reacting a second terminus of the

polyfunctional reagent with an amino group of an antimicrobial agent such as herein described so as to form a covalent bond between the amino group and said second terminus, and recovering the product by a method such as herein described.

Compl. Specn. 15 pages.

Drgs. 1 sheet.

CLASS : 189.

160752.

Int. Cl. : A 61K-7/16.

#### "DENTIFRIGE COMPOSITION".

Applicant : COLGATE-PALMOLIVE COMPANY, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 300 PARK AVENUE, NEW YORK, NEW YORK 10022, UNITED STATES OF AMERICA.

Inventor : HARRY HAYES & RICHARD JOSEPH CRAWFORD.

Application for Patent No. 922/Del/84 filed on 10th December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

#### 6 Claims

A Dentifrice composition comprising 20-80% by weight of an aqueous humectant vehicle, 0.1-5% by weight of gelling agent mixture 20-75% by weight of alpha-alumina trihydrate polishing agent, sodium fluoride and sodium monofluorophosphate in amount to provide 300 to 1000 ppm fluorine, 0.05-0.5% by weight of allantoin desensitising agent and 0.05-0.5% by weight of pyridyl carbinol vasodilator agent, wherein said gelling agent mixture is a mixture either of a cellulosic gelling agent or xanthan with i-carrageenan in a weight ratio of cellulosic gelling agent to i-carrageenan of 5 : 1 to 1 : 5.

Compl. Specn. 22 pages.

Drgs. 1 sheet.

CLASS : 32F, 32(b) (c) & 83B.

160753.

Int. Cl. : A231 1/27.

#### "A PROCESS FOR THE EXTRACTION OF GARCINOL, HYDROXYCITRIC ACID AND ANTHOCYANINS WHICH ARE USEFUL IN FOOD INDUSTRY AS COLOURING ADDITIVES, FROM KOKUM PLANT (GARCINIA INDICA)".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : NANJUNDAIAH KRISHNAMURTHY, BHAGAVATHULA RAVINDRANATH & SATYAGALAM RANGANATHA DESHIKACHARYA SAMPATHU.

Application for Patent No. 247/Del/85 filed on 23rd March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

#### 8 Claims

A process for the extraction of garcinol hydroxycitric acid and anthocyanins which are useful in food industry as colouring additives, from kokum plant (Garcinia indica) comprises treating the dried and powdered fruit rind of kokum fruit with water to obtain a water extract containing hydroxycitric acid and anthocyanine, separating the same by fractional chromatography and further treating the plant material residue with an organic solvent to obtain garcinol.

Compl. Specn. 9 pages.

CLASS : 103.

160754

Inventors : PAUL RATNASAMY, SUNEETA BALVANT KULKARNI, ARVIND NARAYAN KOTASTHANE AND VASUDEO PANDURANG SHIRALKAR.

Int. Cl. : C23f 9/02.

"AN INHIBITOR COMPOSITION FOR PROTECTION OF METAL ALLOYS FROM SEA WATER".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : RAJESH POPATLAL PANDYA, JETHALAL KESHAVLAL LANGALIA, MUKESH MAHENDRABHAI PANDYA, PRAFULLA RAMNIKRAI MEHTA, JITENDRA RAMANLAL SANGHAVI & TAQUI KHAN MIRZA MOHAMMAD.

Application for Patent No. 249/Del/85 filed on 23rd March, 1985

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

## 3 Claims

An inhibitor composition for protection of metal alloy from sea water under corrosion comprises a mixture of zinc acetate and calcium gluconate.

Prov. Specn 5 pages.

Compl. Specn 7 pages.

CLASS : 128-A.

160755.

Int. Cl. A 61 f 13/02.

"A PROCESS FOR MAKING NEW ABSORBABLE HAEMOSTATIC DRESSING FROM TAMARIND SEED POLYOSE".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : JAGAT PAL SINGH, SARIN, SATYAWAN SINGH, RANESH CHANDRA NANDI, GYANENDRA KUMAR PATNAIK, NANDOO MAL KHANNA, BHOLA NATH DHAWAN.

Application for Patent No. 59/Del/1985 filed on 25-1-1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

## 11 Claims

A process for making new absorbable haemostatic dressing from tamarind seed polyose which comprises making a mulage of the tamarind seed polyose by moistening with solvents plasticizing agent and water, heating the mulage, drying the product so formed, spreading the dried product on a flat surface and compressing the product.

Compl. Specn. 9 pages.

CLASS : 40 B

160756

Int. Cl. : B 01 j—11/00.

PROCESS FOR THE PREPARATION OF NEW CATALYST COMPOSITE MATERIAL USEFUL FOR THE CONVERSION OF ALKANOLS TO HYDROCARBONS.

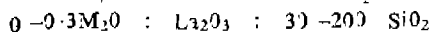
Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, OF RAJ MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Application for Patent No. 060/Del/1985 filed on the 25th January, 1985.

Appropriate office for opposition proceedings (Rule, 4 Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 12 Claims

A process for the preparation of a catalyst composite material having a composition in the anhydrous form in terms of mole ratio of oxides of formula



Wherein M is a monovalent cation comprising reacting an aqueous solution of lanthanum, silicon an alkali metal and sulphuric acid with a tetra alkyl ammonium salt of formula  $R^1R^2N+Z$  to form a gel wherein  $R^1$  and  $R^2$  are alkyl groups containing 2-4 carbon atoms,  $R^1$  may or may not be same as that of  $R^2$ , the values of x and y vary between 1 and 3 and may or may not be the same but the sum of the values of x and y equals 4 and Z is bromide or hydroxide ions, heating the resultant gel at 100 to 200°C for 5 to 500 hrs, in an autoclave, filtering, drying and calcining the resultant solid composite material.

Complete specification 19 pages.

CLASS : 40 A<sub>1</sub> & A<sub>2</sub>

160757

Int. Cl. : B 01 j—9/12.

MULTIPLE-STAGE REACTOR SYSTEM FOR A MOVING CATALYST BED.

Applicant : UOP INC., A CORPORATION ORGANISED IN THE STATE OF DELAWARE, WITH ITS PRINCIPAL PLACE OF BUSINESS AT TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS 60016.

Inventors : ARTHUR RAYMOND GREENWOOD, JEFFREY EDWARD BURGARD AND ROGER LEE THRONDSOEN.

Application for Patent No. 142/Del/1985 filed on 20 Feb. 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 8 Claims

A multiple-stage reactor system for effecting radial flow contact of a reactant stream with catalyst particles movable as an annular-form bed through said system by gravity flow, which comprises in combination :

- (A) a vertically elongated confined chamber;
- (B) at least two vertically spaced apart reactor sections in said chamber;
- (C) at least one of said reactor sections comprising :
  - (i) a bottom enclosed inner tubular-form catalyst retaining screen coaxially disposed within an outer vertically positioned tubular-form catalyst retaining screen to provide an annular-form catalyst retaining section, said catalyst retaining section having a manifold space around the exterior thereof, and within the inner space thereof as defined by said inner catalyst retaining screen;
  - (ii) an upper transverse partition means covering said annular-form catalyst retaining section;
  - (iii) a second transverse partition means below said catalyst retaining section, said second transverse partition means having an opening

which provides an annular-form catalyst passageway adjacent to said inner catalyst retaining screen;

(iv) a catalyst transfer means comprising:

(a) a tubular-form well extending below said second transverse partition means;

(b) a bottom transverse partition means supporting said inner catalyst retaining screen in said well to provide an annular-form catalyst collecting zone below said annular-form catalyst retaining section and co-extensive with said annular-form catalyst passageway;

(c) a plurality of catalyst outlet means uniformly spaced in the bottom of said annular-form catalyst collecting zone and adjacent to the inner and outer walls thereof; and

(d) a plurality of elongated catalyst transfer conduits connective with said outlet means and with a next catalyst retaining section whereby catalyst particles can move by gravity flow from an upper reactor section to a next lower reactor section.

(v) a reactant stream inlet means located in an upper portion of each of said reactor sections, said inlet means being in open communication with the manifold space around the catalyst retaining section therein; and

(vi) a reactant stream outlet means from each of said reactor sections which is connective with the upper end of the inner catalyst retaining screen and in open communication with the inner manifold space defined by said screen;

(D) a catalyst inlet means connective with the upper portion of said chamber; and

(E) a catalyst outlet means connective with the lower portion of said chamber.

Compl. specn. 29 pages.

Drg. 2 sheets

CLASS : 55 A & D<sub>2</sub> & 170 D

160758

Int. Cl. : C11d 9/50.

#### METHOD OF PREPARING AN INSECT REPELLANT SOAP COMPOSITIONS.

Applicant : SIMMONS NOMINEES PTY. LTD., A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF VICTORIA, OF 12 LANTANA STREET, DONCASTER EAST, VICTORIA, AUSTRALIA.

Inventor : THOMAS EDWIN SIMMONS.

Application for Patent No. 169/Del/85 filed on 28th February, 1985.

Convention date 19th July, 1984/PG 6106/84/(Australia).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 9 Claims

A method of preparing an insect repellent soap composition which comprises mixing at room temperature following ingredients:

- (1) from 63.0 to 99.5% by wt of a soap mixture containing from 4.1 to 7% by wt of a soap of caprylic acid, from 3.8 to 7% of a soap of capric acid, from 32.1 to 45% of a soap of lauric acid, from 12 to 17.5% by wt of a soap of myristic acid, from 5.0 to 10% by wt of a soap of palmitic acid, from 1.6 to 3% by wt of a soap of stearic acid, from 3.5 to 5% by wt of a soap of oleic acid

and from 0.9 to 5% by wt of a soap of linoleic acid;

(2) from 0.1 to 2% by wt of C<sub>8</sub>-C<sub>18</sub> straight chain fatty acids;

(3) from 0.2 to 30% by wt of a repellent chemical of the kind such as herein described.

(4) from 0.2 to 5% by wt of an effective residual insecticide of the kind such as herein described.

Complete specification 8 pages.

CLASS : 40 B

160759

Int. Cl. : B01j 11/78.

#### PROCESS FOR PREPARING HIGH ACTIVITY, FREE FLOWING OLEFIN POLYMERIZATION SOLID CATALYST COMPOSITION.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., A NETHERLANDS COMPANY, OF CAREL VAN BYLANDTLAN 30, 2596 HR THE HAQUE, THE NETHERLANDS.

Inventors : BRIAN LESLIE GOODALL & ROBERT CHARLES JOB.

Application for Patent No. 210/Del/85 filed on 13th March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 6 Claims

A process for preparing high activity, free flowing olefin polymerization solid catalyst composition comprising:

(a) halogenating a magnesium compound of the formula MgR'R'' wherein R' is an alkoxide or aryloxy group and R'' is an alkoxide or aryloxy group or halogen, with a halide of tetravalent titanium in the presence of a halohydrocarbon and an electron donor, separating in any known manner the solid reaction product from the reaction mixture;

(b) contacting the halogenated product with a tetravalent titanium halide and separating the resulting solid from the liquid medium;

(c) contacting the resulting solid with an inert, low boiling hydrocarbon liquid of the kind such as herein described.

(d) adding a hydrocarbon mineral oil to a mixture of low boiling hydrocarbon liquid and solid product, said mineral oil being a viscous, paraffinic/naphthenic hydrocarbon oil with a viscosity of 50 to 2000 SSU at 38°C; and

(e) removing by evaporation the low boiling hydrocarbon liquid from the resulting mixture, wherein the amount of hydrocarbon mineral oil added in step (d) is greater than five per cent by weight, based on the combined weight of the solid component plus mineral oil, but is less than the amount whereby the resulting solid product is no longer free flowing.

Complete specification 12 pages.



CLASS : 179 c [XL(6)], 206 E [XII]

160760

Int. Cl. : H05K—5/00.

## SEMICONDUCTOR HOUSING.

Applicant : WESTINGHOUSE BRAKE AND SIGNAL COMPANY LIMITED, A BRITISH COMPANY, OF PEW HILL, CHIPPENHAM, WILTSHIRE, UNITED KINGDOM.

Inventors : ROGER FILLMORE CALMEAD BENNETT.

Application for Patent No. 327/Del/1985 on the 18th April, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

## 7 Claims

A semiconductor housing for a multi-terminal semiconductor device comprising an enclosure bounded by a continuous wall of ceramic or the like insulating material through which passes a conductor to form a connection between said device inside the enclosure and connector means outside the enclosure, the conductor in the region of the wall being surrounded by a hollow member of material having a coefficient of expansion comparable to that of the continuous wall, a high temperature brazed seal between the wall in the region of said aperture, and the hollow member, and further high temperature brazed seals at both ends of the hollow member.

Complete specification 12 pages.

Drg. 1 sheet

CLASS : 32 F 2(c)

160761

Int. Cl. : C 07 c—121/18.

## PROCESS FOR RECOVERING HIGHLY PURE ACETONITRILE FROM AN INITIAL ACETONITRILE-WATER MIXTURE.

Applicant : THE STANDARD OIL COMPANY, AN OHIO CORPORATION, HAVING A PLACE OF BUSINESS AT PATENT & LICENSE DIVISION, MIDLAND BUILDING, CLEVELAND, OHIO 44115, UNITED STATES OF AMERICA.

Inventors : ROBERT DEAN PRESSON, HSIN-CHIN WU AND EDWARD JOSEPH SOCKIUI.

Application for Patent No. 500/Del/1985 filed on 26 June, 1985.

Ante-dated to 23 December, 1981.

Divided out of application No. 802/Del/1981 filed on 23 December, 1981 (159808).

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-5.

## 2 Claims

A process for recovering highly pure acetonitrile from an initial acetonitrile/water mixture containing about 15 weight percent or more of water comprising:

- (1) distilling said initial mixture in a first distillation zone at a first pressure below 1 atmosphere to produce a water-containing bottoms product and a second acetonitrile/water mixture comprising an azeotrope of acetonitrile and water more concentrated in acetonitrile than said first mixture;
- (2) distilling said second mixture at a second pressure above 1 atmosphere to produce a third acetonitrile/water mixture comprising an azeotrope of acetonitrile and water less concentrated in acetonitrile than said second mixture and said highly pure acetonitrile; and
- (3) recycling said third mixture so that said third mixture is distilled along with said first mixture.

Compl. specn. 9 pages.

Drg. 1 sheet

4—177 GI/87

CLASS : 107F, 206 E

160762

Int. Cl. : F 02 p—9/00, G 06 F—9/00.

## IGNITION ADVANCE VARIATOR DEVICE FOR AN INTERNAL COMBUSTION ENGINE.

Applicant : PIAGGIO & C. S.p.A., A COMPANY ORGANISED UNDER LAW OF THE ITALIAN REPUBLIC OF VIA A. CECCHI, 6-GENOVA, ITALY.

Inventor : GIATCOMO MONTANO.

Application for Patent No. 520/Del/85 filed on 2nd July, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 9 Claims

Ignition advance variator device for an internal combustion engine provided with a feed unit operating between a minimum feed position and a maximum feed position, a driving shaft, and at least an ignition spark plug, said device supplying high voltage to the spark plug with an advance which is a function of the number of driving shaft revolutions in the time unit and of the position of the feed unit, characterized in that it comprises:

- a generator linked to the driving shaft, generating a first and a second signal in sequence at each revolution of the driving shaft per each spark plug, said first and second signal defining respectively the maximum and the minimum ignition advance;
- a separator connected to the generator, separating the said first and second signal and sending them on two corresponding distinct outputs;
- detecting means of the position of the feed regulation element, transforming the feed regulator position value into an electrical quantity;
- a microprocessor provided with a CPU comprising a first and a second counter, and moreover provided with memory units containing the computation programs of the CPU and the advance data as a function of the number of revolutions of the driving shaft per time unit and of the position of the feed regulation element, said CPU and said memory units being connected to each other and to said detecting means, said CPU having a first, interrupt, input, connected to the separator output relevant to the first signal, through which the first counter is stopped by means of the first signal, said first counter supplying a count datum between the said first signal and the second signal of the preceding revolution, said count datum corresponding to the number of driving shaft revolutions per time unit, said CPU having moreover a second, reset, input, connected to the separator output relevant to the second signal, through which the same CPU is initialized, the microprocessor outputs are disabled, and the second counter of the CPU is preset, said CPU being able to compute the datum of the number of revolutions per time unit through the first counter and the datum of the position of the engine feed regulation element through the detecting means, to obtain the corresponding advance data from the memory units; and to command with the corresponding advance time counted through the second counter the emission of a pilot signal;
- a high voltage generator connected to the said pilot output of the microprocessor, suitable to supply the spark plug with high voltage, on command by the said pilot signal.

Compl. specn. 16 pages.

Drg. 1 sheet

CLASS : 32 F<sub>5</sub>(b)

160763

Int. Cl. : C 07 d—91/00.

PROCESS FOR THE PRODUCTION OF BENZOTHIAZOLE SULPHENE AMIDES.

Applicant : BAYER AKTIENGESSELLSCHAFT, A BODY CORPORATE ORGANISED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY OF LEVERKUSEN, BAYERWERK, FEDERAL REPUBLIC OF GERMANY.

Inventors : ALFREDO WUST AND TONY VAN OSSELAER.

Application for Patent No. 555/Del/1985 filed on 16th July 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 4 Claims

A process for the production of benbothiazole sulphene amides from dibenzothiazolyl disulphide and a water-soluble amine such as herein described in the absence of an oxidizing agent such as herein described and in the presence of aqueous alkali, characterised in that the amine or the solution of the amine is placed in water and dibenzothiazolyl disulphide and aqueous alkali are added simultaneously from separate storage vessels.

Compl. specn. 8 pages.

CLASS : 128-I

160764

Int. Cl. : A 61 h 31/00.

LUNG EXERCISER.

Applicant : VIRENDRA SINGH, C 86 SHASTRI NAGAR, JAIPUR-302 006 (RAJASTHAN) INDIAN.

Inventor : VIRENDRA SINGH.

Application for Patent No. 1114/Del/85 filed on 30-12-85.

Complete specification left on 20-10-1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 10 Claims

A lung exerciser comprising of a small tubal body with one end completely open to fit with mouth piece or nasal attachment and another end closed but provided with one or more holes to permit inhalational and exhalational air or oxygen, the closed end being provided with a revolving disc having one or more holes inside the body controlled by an external device and the inner side of the disc being optionally further provided with a diaphragm.

Compl. specn. 9 pages.

Drg. 2 sheets

CLASS : 140 B<sub>2</sub>

160765

Int. Cl. : C 11 b 1/00.

A CONTINUOUS SOLVENT EXTRACTION PROCESS FOR THE DEFATTING OF WHOLE KERNELS AND OILSEEDS.

Applicant : VISHVA MITRA BHUSHAR, OF A/20/1, D.D.A. S/F, FLATES, SAKET, NEW DELHI-110017, INDIA; FORMERLY OF 19/3, WEST PATEL NAGAR, NEW DELHI-110008; INDIA, AN INDIAN NATIONAL.

Inventor : VISHVA MITRA BHUSHAR.

Application for Patent No. 77/Del/84 filed on 27th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 5 Claims

A continuous solvent extraction process for the defatting of whole kernels and oil-seeds which comprises the use of a plurality of extraction units connected to a set of distillation units and a solvent reservoir wherein the process is carried out using in combination a sequence of steps charging the deskinners kernels in a first extraction unit, passing a part of the solvent from the solvent reservoir to the kernels in the first extraction unit and balance to the first distillation unit, applying heat to the said first distillation unit to pass solvent vapours formed into the solvent kernels mixture in the said first extraction unit to effect extraction of the oil from the kernels, passing the oil-solvent mixture thus formed into the said first distillation unit in a cycle to obtain a desired oil-solvent concentration in the said distillation unit, disconnecting the said first extraction unit and connecting same to a second distillation unit, similarly charged with fresh solvent to complete the extraction of the oil in the first extraction unit from the kernels to desired extent, disconnecting the first extraction unit from the second distillation unit and connecting the same to a second extraction unit charged with fresh kernels to repeat the sequence of the steps to of process with the second distillation unit and the second extraction unit to deoil the kernels as described above and so on with a further third distillation unit and then repeating the cycle of steps to of the process again with the first extraction unit charged with fresh kernels in a continuous manner to obtain defatted kernels, oil extracted therefrom and the recovered solvent for reuse in the process.

Compl. specn. 14 pages.

Drg. 2 sheets

CLASS : 144 E6

160766

Int. Cl. : C 09 c 1/00.

PROCESS OF PREPARING A CERAMIC PIGMENT.

Applicant : HMR GROUP LIMITED, OF UTTOXETER ROAD, MEIR, STOKE-ON-TRENT, STAFFORDSHIRE ST3 7PX, ENGLAND, A BRITISH COMPANY.

Inventor : JOHN KENNETH OLBY.

Application for Patent No. 173/Del/84 filed on 28th February, 1984.

Convention date 10-3-83/83 06575/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

A process of preparing a grey ceramic pigment comprising molybdenum sulphide incorporated in zircon, which comprises firing under known conditions (1)(b) finely divided molybdenum sulphide or (b) components such as herein described capable of generating molybdenum sulphide (2) reactive zirconia, (3) silica and (4) a mineralizer, such as herein described, and removing by known methods free molybdenum sulphide from the fired stain.

Complete specification 12 pages.

CLASS : 70A.

160767

Int. Class : B01k 1/00.

"ELECTROLYTIC CELL".

Applicant : IMPERIAL CHEMICAL INDUSTRIES LTD., IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3JF, ENGLAND, A BRITISH COMPANY.

Inventors : IAN WARDLE & KEITH BRATTAN.

Application for Patent No. 212/Del/84 filed on 7th March, 1984.

Convention date 24-3-1983/8308187 (U.K.)

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## (14 CLAIMS)

An electrolytic cell of the filter press type comprising a plurality of anodes, cathodes and gaskets of an electrically insulating material, the anodes and cathodes being provided in an alternating manner in said cell in which an ion-exchange membrane is positioned between each adjacent anode and cathode to form in the cell a plurality of anode compartments and cathode compartments, the cell having two inlet headers from which, respectively, electrolyte may be charged to the anode compartments of the cell and from which liquors may be charged to the cathode compartments of the cell, and two outlet headers from which, respectively, products of electrolysis may be removed from the anode compartments and cathode compartments of the cell, characterised in that the cell is provided with a common chamber which communicates with each of the anode compartments and/or a common chamber which communicates with each of the cathode compartments, said chamber or chambers being provided with means for recirculating electrolyte to the anode compartments, the said chamber or chambers communicating respectively with the outlet header from the anode compartments and/or with the outlet header from the cathode compartments.

Comp. spec. 24 pages

Draw. 4 sheets

CLASS : 206 E &amp; 1/1 C8

160768

Int. Class : HOIL 15/02 &amp; 1/00.

"A METHOD OF CONTINUOUSLY DEPOSITING A THIN, LIGHT TRANSMISSIVE, ELECTRICALLY CONDUCTIVE FILM ONTO A MOVING SUBSTRATE AND APPARATUS THEREFOR".

Applicant : ENERGY CONVERSION DEVICES, INC., a Delaware corporation, having a place of business at 1675 West Maple Road, Troy, Michigan 48064, U.S.A.

Inventor : PREM NATH.

Application for Patent No. 282/Del/84 filed on 30th March, 1984.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rule 1972) Patent Office Branch, New Delhi-5.

## (CLAIMS 32)

A method of continuously depositing a thin, light transmissive, electrically conductive film onto a moving substrate, the method including the steps of :

vacuumizing a chamber ;

continuously advancing a web of substrate material through the chamber ;

providing a source of metallic material ;

evaporating the metallic material in the vacuumized chamber, whereby a metallic vapor is produced in a zone defined between the substrate and the source of metallic material;

replenishing the metallic material as it evaporates from the source,

introducing oxygen gas into the zone;

introducing electromagnetic energy into the zone to develop an ionized plasma from the oxygen gas atoms introduced and the metallic atoms evaporated into the zone, whereby a metal oxide film is adapted to be continuously deposited onto the moving substrate,

Compl. specn. 32 pages.

Drgs. 4 sheets

CLASS : 130 G.

160769

Int. Class : C22b 13/00.

"A METHOD FOR PRODUCING LEAD FROM OXIDIC LEAD RAW MATERIALS WHICH CONTAIN SULPHUR".

Applicant : BOLIDEN AKTIEBOLAG, a Swedish company, of Box 5508, Sturegatan 22, S-11485 Stockholm, Sweden.

Inventors : JOHAN SVERRE LEIRNES, MALKOLM SEVERIN LUNDSTROM, MARTIN LENNART (EDLUND & KURT JOHNNY ANDREAS BUREN.

Application for Patent No. 307/Del. 84 filed on 9th April, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## (11 Claims)

A method for producing lead having a sulphur content between about 2% from sulphur-containing oxide lead raw materials contaminated with zinc and/or other readily oxidizable elements by melting the materials in a furnace in which the charge can be agitated, characterized by introducing the lead raw materials of the kind such as herein described into the furnace together with iron containing flux of the kind such as herein described and solid reduction agent of the kind such as herein described : heating the charged material under agitation, to form a lead phase and a slag phase adjusting the amount of reduction agent charged so that at least all the lead content of the furnace is reduced to lead metal; and by adjusting the amount and composition of the flux charge so that a terminal slag is obtained in which the sum of the amounts of iron and zinc present is 30-40% and so that the slag contains 15-25% of  $\text{SiO}_2$  and also 15-25% of  $\text{CaO} + \text{MgO}$ .

(Complete specification 10 pages Drawing 1 sheet).

Class : 32 B.

160770

Int. Class : C 07 c - 3/10.

PROCESS FOR MANUFACTURING PARAFFIN HYDROCARBONS FROM A HIGHER FATTY ACID GLYCERIN ESTER.

Applicant : HONDA GIKEN KOGYO KABUSHIKI KAISHA, A JAPANESE COMPANY, OF 27-8, JINGUMAE 6-CHOME, SHIBUYA-KU, TOKYO, JAPAN.

Inventors : YASUO TAKABORI, YOSHIHISA SAEKI, TOHRU TOMII & TSUQUO KIMURA.

Application for Patent No. 317/DEL/1984 filed on the 11th April, 1984.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-5.

## 12 claims

A process for producing paraffinic hydrocarbons from a higher fatty acid glycerin ester said process comprising the steps of catalytically cracking said higher fatty acid glycerin ester with a catalyst selected from the group comprising Y zeolite alumina, cobalt molybdenum alumina and nickel molybdenum alumina, and recovering the paraffinic hydrocarbons so produced by any known method.

Complete specification 12 pages.

CLASS : 169 B1.

160771

Int. Class : F 41C, 23/00.

"IMPROVEMENTS IN OR RELATING TO FIREARMS".

Applicant : RABENDER SINGH MATHODA, AN INDIAN CITIZEN, OF D-164, DEFENCE COLONY, NEW DELHI-110024, INDIA.

Inventor : RABENDER SINGH MATHODA.

Application for Patent No. 318/DEL/85 filed on 17th April, 85.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-5.

### 13 claims

A firearm of the kind herein described adapted to be employed with a plurality of replaceable buttstocks to suit marksmen of varying physical dimensions or to suit the same marksman firing from an altered position which comprises a barrel, an action component connected to said barrel and a buttstock connected to said action component, said buttstock comprising a forestock permanently secured to said action component and a main stock releasably secured to said forestock through the medium of securing means located between said forestock and said main stock.

Complete specification 14 pages. Drg. 1 sheet.

CLASS : 130 D.

160772

Int. Class : C22b-13/02.

"A METHOD FOR PRODUCING LEAD FROM SULPHIDIC AND OXIDIC AND/OR SULPHATIC LEAD RAW MATERIALS".

Applicant : BOLIDEN AKTIEBOLAG, A SWEDISH COMPANY, OF BOX 5508, STUREGATAN 22, S-11485 STOCKHOLM, SWEDEN.

Inventors : JOHAN SVERRE LEIRNES, MALKOLM SEVERIN LUNDSTROM MARTIN LENNART HEDLUND AND KURT JOHNNY ANDREAS BUREN.

Application for Patent No. 322/DEL/1984 filed on 12th April 1984.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-5.

### 11 claims

A method for producing lead from moist-sulphide concentrates and oxidic and/or sulphatic lead raw materials by the known roasting and reaction process, characterized by bringing granules or pellets of oxidic and/or sulphatic lead raw materials together with the moist lead concentrate in a drum-like vessel arranged for rotation about its longitudinal axis, and drying said moist concentrate while rotating said drum-like vessel, to form sulphide-containing granulates, introducing into a furnace said dried granulates and slag forming materials in predetermined proportions; vigorously agitating the charge and creating turbulence in the resultant melt and by effecting said roasting and reaction process in said furnace in a manner to form a liquid slag and a molten lead phase, and recovering the final product by any method known per se.

Complete Specification 13 pages. Drgs. 2 sheets.

CLASS : 37 A & 167 G.

160773

Int. Class : B03b 3/00.

"IMPROVED SPIRAL SEPARATOR".

Applicant : MINERAL DEPOSITS LIMITED, A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF NEW SOUTH WALES, COMMONWEALTH OF AUSTRALIA, OF 81 ASHMORE ROAD, SOUTHPORT, QUEENSLAND, AUSTRALIA.

Inventors : PHILIP JOHN GIFFARD.

Application for Patent No. 329/Del/84 filed on 17th April, 1984.

Convention date 18th April, 1983 PF 8936/(Australia).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

### 18 claims

A spiral separator including at least one helical trough having a trough floor extending between an inner periphery and an outer periphery, said trough being adapted to receive a pulp stream of water and particles at its upper end and to separate particles of different densities as the stream moves downwardly along said trough, said separator being characterised by the inclusion of at least one deflector located adjacent said outer periphery for deflecting a portion of the low solids high velocity stream component from the outer periphery of the pulp stream back across said stream towards said inner periphery.

Complete specification 9 pages. Drgs. 3 sheets.

Class : 32 F2(a), 32 F2(b), 32 F2(c), 32 F2(d), 160774

Int. Cl. : B 01 d-11/00.

"PROCESS AND INSTALLATION FOR THE PRODUCTION OF AN ORGANIC SOLUTION OF A WATER-INSOLUBLE ORGANIC BASE."

Applicant : SOLVAY & CIE, a Belgian Company, of 33, rue du Prince Albert, B-1050 Brussels, Belgium.

Inventor : LEON NINANE, CLAUDE BRETON and CONSTANT GUERDON.

Application for Patent No. 343/Del/1984 filed on 19 April 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

### 11 Claims

Process for the production of an organic solution of a water-insoluble organic base, in which water, an organic solution of a water-immiscible chloride of an organic cation, and a basic reagent capable of decomposing the chloride of the organic cation to form the base are mixed, and the organic solution containing the base and an aqueous phase containing a solid residue are separated, characterised in that in order to separate the organic solution containing the base from the aqueous phase, the phases are subjected to phase separation and at least a part of a sludge which separates the organic solution and the aqueous phase which have separated out is withdrawn and recycled into the abovementioned mixture.

Installation for the production of an organic solution of a water-insoluble base in accordance with the process of any one of claims 1 to 9 characterised in that it comprises :

- a reaction chamber processsing a mixing device, means for admitting into the reaction chamber and organic solution of the chloride of an organic cation, a basic reagent and water,
- a pipeline for withdrawing the reaction mixture from the reaction chamber and
- a phase separation chamber into which opens the above-mentioned withdrawal pipeline, the phase separation chamber comprising separate pipeline for removing the phases which have separated and, in the zone of separation of these phases, a withdrawal device which connects to the reaction chamber.

(Complete specifications 15 pages Drawing 2 sheets)

CLASS : 119B.

160775

Int. Cl. : D03j 1/00.

"A HEALED FRAME FOR A WEAVING LOOM".

Applicant : SULZER BROTHERS LIMITED, a Swiss company of CH-8401 Winterthur, Switzerland.

Inventor : JOHN DALTON GRIFFITH.

Application for Patent No. 485/Del/84 filed on 13th June, 1984.

Convention date, 16th June, 1983/8316401/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 4 Claims

A heald frame for a weaving loom, the heald frame including an upper cross-member and a lower cross-member for supporting healds therebetween, a plurality of connection members extending between the upper and lower cross members extending between the upper and lower cross members to retain them in spaced relationship, the portion of the connection members extending between the upper and lower cross members being of a narrow width to enable warp yarns to pass either side without interference, the connection members being arranged to be connected to motive means for causing reciprocation of the heald frame.

(Complete specification 17 pages Drawing 16 sheets)

CLASS : 206 H & 187 H. 160776

Int. Cl. : H04 m 300.

Applicant : BUDAPESTI RADIOTECHNIKAI GYAR, of 1033 Budapest, Polgar u. 8-10, Hungary, an Hungarian Company.

Inventor : SANDOR KOVACS & ARPAD FOZO.

Application for Patent No. 771/Delhi/83 filed on 21st November, 1983.

Appropriate office for filing opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 14 Claims

An electronic filter device with variable frequency and quality factor comprising three operational amplifiers connected in a closed loop chain two of said amplifiers being fed by respective capacitive impedances and the third one by resistor means, the output of the first operational amplifier being coupled through the medium of a coupling member to the input of the second operational amplifier and the output of the third operational amplifier being coupled through the medium of a resistor to the input of said first operational amplifier, characterised in that the first capacitive feedback impedance connected to said first operational amplifier comprises a capacitance member and a resistive member coupled in parallel, the resistive member having a quality factor-determining terminal connected to a quality factor-adjusting switch for adjusting the resistance of said resistive member and the second capacitive feedback impedance connected to said second operational amplifier and/or the capacitance member of said first capacitive feedback impedance each comprises a series RC member, a frequency adjusting switch for providing an adjustable resistance value being connected to the coupling member coupling said first and second operational amplifiers.

(Complete specification 31 pages Drawing 4 sheets)

CLASS : 154A&D, 21B. 160777

Int. Cl. : A43d-7/08, 7/10.

"A METHOD OF MAKING A SHOE UPPER AND SHOE THUS PRODUCED".

Applicant & Inventor : ERNEST HENRY WORTH, a British subject, of Edwalton Lodge, Melton Road, Edwalton, Nottingham, England.

Application for Patent No. 815/Del/1983 filed on 3rd December, 1983.

Convention application No. 8234676 dated 4th December, 1982 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

5—177 GI/87

#### 14 Claims

A method of making a shoe upper having a pattern applied thereto comprising forming an assembly of an overlying layer, from which a pattern is formed, and an underlying material, with a layer of activatable adhesive therebetween : applying heat to said assembly by means of a die which is shaped to correspond to the desired pattern : whereby the layer of adhesive is activated over at least part of the surface area of the pattern to be applied in order to adhere the part of the overlying layer corresponding to the pattern to the underlying material : and thereafter removing part of the overlying layer from the underlying material so that only the pattern defined by the die remains attached to the underlying material to produce the desired shoe upper having a pattern applied thereto.

(Complete specification 9 pages.

Drg. 3 sheets)

Class : 91 & 116 C,F & G.

160778

Int. Class : B66b 1/24, 5/00 & G05d 13/14.

"AN IMPROVED ELEVATOR GOVERNOR".

Applicant : OTIS ELEVATOR COMPANY, a corporation of the State of New Jersey, U.S.A., located at Ten Farm Springs, Farmington, Connecticut 06032, U.S.A.

Inventor : WERNER KOPPENSTEINER.

Application for Patent No. 242/Del/84 filed on 19th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

#### (3 Claims)

An improved elevator governor consisting of a disc driven by a rope secured to an elevator car or a counter-weight, characterised by a stationary member :

said disc being rotatable by said rope around said stationary member, the disc having at least one surface thereof opposite the surface of said stationary member thereby defining a wedge shaped space between the said two surfaces ;

a pair of weights that are pivotally mounted on the disc and mechanically interconnected so that the weights pivot simultaneously in the same radial direction; and

a roller which is carried on the disc and located between the disc and the stationary member and connected to the weights to be progressively moved into the tapered area as the weights pivot in a first direction in response to disc rotational speed, said roller mechanically connecting the disc and the stationary member when the weights pivot to a first position.

Compl. spec. 10 pages

Drw. 1 sheet.

Class : 98E.

160779

Int. Class : F 16t 1/08.

"STEAM TRAP".

Applicant : GESTRA KONDENSATABLETER GMBH & CO. KOMMANDITGESELLSCHAFT, of Postfach 10 54 60 Hemmstrasse 130, D-2800 Bremen 1, West Germany, a German Company.

Inventor : FOLLER WERNER.

Application for Patent No. 270/Del/1984 filed on 27th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

## (6 Claims)

A steam trap having a partition between a high pressure side and a low pressure side, a closure element carrying a shaft are disposed on the low pressure side of the steam trap, a valve seat with which the closure element co-operates, said valve seat being provided on a seat block mounted on said partition and a control unit which controls the closure element, said control unit comprising a plurality of bimetallic snapping members which are disposed on the high pressure side of the steam trap, at least one abutment being fixedly disposed on the high pressure side of the steam trap, at least one abutment being fitted to the shaft, the bimetallic snapping members being supported with one end on at least one fixedly disposed abutment, the other end of the bimetallic snapping members moving in the closing direction in the case of a temperature rise and being supported on at least one abutment fitted to the shaft, the abutments being mounted such that the closure element engages on the valve seat within the snapping stroke of each individual bimetallic snapping member.

Compl. specn. 13 pages.

Drgs. 3 sheets

CLASS : 27 I & 127 I

160780

Int. Cl. : F 16 b 7/00.

"TWO ELONGATE STRUCTURAL MEMBERS CONNECTED BY A FLEXIBLE JOINT".

Applicant & Inventor : SVEN RUNO VILHELM GEBELIUS, A SWEDISH CITIZEN, OF P.O. BOX 15008, S-161 15 BROMMA, SWEDEN.

Application for patent No. 325/Del/84 filed on 16th April, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

## 9 Claims

Two elongate structural members connected by a flexible joint comprising a first elongate member located adjacently on the top of a second elongate member; at least two plate spring members extending in spaced and substantially parallel relationship with each other and each having a first and second end portions, the first end portions of said spring members being connected in spaced relationship to said first elongate member and the second end portion of said spring members being moveably connected to said second elongate member so that displacement movement of said spring members of substantially the same amount relative to said second elongate member displaces said first and second elongate members substantially linearly with respect to each other, and displacement movement of said spring members of different amounts relative to second elongate member pivots said first elongate member with respect to said second elongate member in the plane substantially passing through said plate spring members in the direction of said plate spring member having the smallest degree of movement.

(Complete specification 13 pages Drawing 3 sheets).

Class : 136H.

160781.

Int. Class : B30b 3/00.

"PRESS FOR THE PREPARATION OF PLASTIC BLANKS".

Applicant : HOECHST CERAMTEC AKTIENGESellschaft, formerly ROSENTHAL TECHNIK AG., of Wiltelsbacherstrasse 49, Postfach 1508, D-8672 Selb/Bayern, Federal Republic of Germany, a West German Company.

Inventor : WILLY SCHMIDT.

Application for patent No. 338/Del/1984 filed on 18th April, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-5.

## (15 Claims)

Press for the preparation of plastic blanks in particular unfinished ceramic shapes for insulators, comprising : a feed-device for a plastic material; a rotor housing fixed to said feed-device; a circular rotor eccentrically supported in said rotor housing for the generation of pressure and the transport of the plastic material, said rotor housing and said rotor forming a tapering channel having a larger end for the introduction of the plastic material and an outlet for said plastic material at a smaller end of said channel, said rotor having at least one axial extending material transport ridge; said outlet for the plastic material at the smaller end of said channel opening out into a polygonal opening in the cylindrical housing; a guide rail in said rotor housing for forcibly guiding said material transport ridge; and a nozzle for discharging plastic blanks attached to the polygonal opening in the cylindrical housing.

(Complete specification 13 pages) (Drawing 3 sheets).

Class : 50A.

160782.

Int. Class : B65d 87/00.

"A STRUCTURE FOR THE SUPPORT OF A THERMALLY LOADED CONTAINER".

Applicant : BORSIG GmbH, of Berliner Strasse 27-37, 1000 Berlin 27, Federal Republic of Germany; a company organised under the laws of the Federal Republic of Germany.

Inventor : KONRAD NASSAUER.

Application for patent No. 433/Del/1984 filed on 23rd May 1984.

Convention date November 17, 1983/8330677/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-5.

## (3 Claims)

A structure for the support of a thermally loaded container capable of compensating at least partially for thermal expansion of said container by permitting both horizontal and vertical displacement thereof which structure comprises :

a pair of brackets provided externally on said container in spaced apart relationship one pair on each of two mutually opposite sides of said container;

support means extending from a foundation and engaging each of said brackets for supporting said container with its longitudinal axis substantially horizontal;

one pair of oppositely disposed support means each comprising a spring loaded bearing member in vertically upward biased engagement with its respective bracket, said member being slidably mounted for horizontal displacement on carrier means;

the second pair of oppositely disposed support means each comprising an elongate support inclined with respect to the longitudinal axis of said container and provided at either end thereof with pivoting means, one pivoting means located at foundation level and the other abutting a respective bracket whereby thermal expansion of said container causes said inclined elongate supports to pivot and through pivotal engagement against their respective abutting brackets to raise said container on an upwardly directed arcuate path the spring loaded bearing members of said first pair of support means following such movement and raising said container vertically a corresponding amount.

(Complete specification 8 pages) (Drawing 2 sheets).

Class : 129G.

160783.

Class : 166 F&amp;G.

160785.

Int. Class : B 23b 39/00.

"MACHINE FOR WORKING MATERIALS SUCH AS WOOD, METAL AND PLASTIC".

Applicant : MEFINA S. A., a company duly organised under the laws of Switzerland, of 5A, boulevard de Perolles, 1700 Fribourg, Switzerland.

Inventor : MARCEL FRESARD, FRANCIS PLOMB & PIERRE COURT.

Application for patent No. 508/Del/1984 filed on 22nd June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-5.

## (15 Claims)

A machine for the working of materials of the kind described herein which comprises a lower frame, an upright joined at one end to said lower frame, an upper arm overlying said lower frame in a spaced manner and joined to said upright, said upper arm, upright and lower frame defining a rigid assembly, a first rotating element of the kind such as herein defined carried by said upper arm and having an end face opposed to said lower frame, a second rotating element of the kind such as herein defined carried by said lower frame and having an end face opposed to said upper arm, a third rotating element of the kind such as herein defined carried by said lower frame and extending substantially horizontally from said lower frame, a motor disposed within said upright, driving means connecting said motor to said first and second rotating elements to rotate same, and said third rotating element connected to and driven in rotation by said second rotating element.

(Complete specification 9 pages) (Drawing 7 sheets).

Class : 98-I.

160784.

Int. Class : F 24j 3/02.

"A SOLAR ENERGY COLLECTING DEVICE WITH GOOD WIND RESISTANCE".

Applicant : ROGER GALLOIS MONITBRUN, A FRENCH CITIZEN, OF 11 BIS, RUE DE NAVARRE, 75005 PARIS, FRANCE.

Inventor : ROGER GALLOIS MONITBRUN.

Application for Patent No. 562/Del/1984 filed on 10th July, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-5.

## (10 Claims)

A device comprising a sloped ensemble of photovoltaic solar panels (photovoltaic or optionally thermal), having the shape of a rectangular surface, elongated in the horizontal sense, said device characterized in that it also comprises a keel of a shape comparable to the panel ensemble 1, fixed behind said panels so as to constitute a dihedral reminiscent of a roof, with one or two vents at its upper part, the extremities of the dihedral being closed by triangular panels, the whole (entity) being fixed at a distance from the ground small but sufficiently to enable the entry of fresh air into the inside of the dihedral, thus preventing the allowance of an excessive reception of the wind, while enabling circulation of air at the rear of the panels.

(Complete specification 12 pages) (Drawing 4 sheets).

Int. Class : B63b 25/00.

"VESSEL AND BARGE ASSEMBLY FOR TRANSPORTING A PREFABRICATED OFFSHORE STRUCTURE".

Applicant : McDermott International, Inc., a Panamanian Company, of 1010 Common Street, P.O. Box 60035, New Orleans, Louisiana 70160, United States of America.

Inventors : ISAAC RUSSELL FOSTER, ROBERT EDWARD HOWSON & DONALD PAYNE.

Application for patent No. 568/Del/84 filed on 11th July, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-5.

## (9 Claims)

A vessel and barge assembly for transporting a prefabricated offshore structure with reduced transportation fatigue stresses to the offshore structure, the assembly comprising :

a sea-going self-propelled vessel having a higher period of roll and lower accelerations than said barge and having a well deck and at least one raised deck with means in said vessel for submerging said well deck to a selected depth without submerging said raised deck;

at least one barge having a draft which is less than said selected depth when loaded with an offshore structure and a length which is less than a length of said well deck, said barge disposed on said well deck and having a top surface for supporting a prefabricated offshore structure ;

means on said barge for skidding a prefabricated offshore structure onto said barge; and

means on said barge for skidding a prefabricated offshore structure onto said barge for securing transport of the offshore structure.

(Complete specification 14 pages. Drawing 3 sheets).

Class : 1E.

160786.

Int. Class : C09j 3/00.

"A PROCESS FOR THE PREPARATION OF AN ADHESIVE COMPOSITION".

Applicant : CPC INTERNATIONAL INCORPORATED, of a Corporation organised and existing under the laws of the State of Delaware, United States of America, of International Plaza, Englewood Cliffs, New Jersey 07632, United States of America.

Inventors : HANS HENNING KOFORD and PER OLE JENSEN.

Application for patent No. 154/Del/81 filed on 19th March 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-5.

## (3 Claims)

A process for the preparation of an adhesive composition consisting of starch, water and alkali in such proportions that the mixture contains between 10 and 40% by weight of starch solids and has a pH value between 8 and 13, a gel point between 52 and 75 degree Centigrade and a stein-Hall viscosity between 20 and 120 seconds, characterized by

(a) maintaining a mixture of ungelatinized starch and water containing between 0.02 and 25% by weight of starch at a temperature between 20 and 100 °C, optionally in the presence of an acid or a base, until the starch is completely gelatinized;

(b) adding ungelatinized starch and optionally water so that the mixture contains a total of between 10 and 40% by weight of starch solids in a weight ratio of completely gelatinized starch to ungelatinized starch of between 0.2 : 100 and 2 : 1, adjusting pH to between 8 and 13 and maintaining the temperature of the mixture between 20 and 75°C until it has reached a Stein-Hall viscosity between 25 and 130 seconds;

(c) adding a reaction inhibitor in an amount such that the gel point of the mixture will be between 52 and 75°C.

(Complete Specification, 13 pages).

#### OPPOSITION PROCEEDINGS

The Opposition entered by M/s. Orissa Cement Limited to the grant of a Patent on application No. 156857 made by M/s. Flogates Limited as notified in the Gazette of India, Part III Section 2 dated 16-8-1986 has been treated as dismissed and ordered that the application for Patent to be Sealed.

#### PATENTS SEALED

144381	148723	148724	149194	150483	157073	157457
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#### AMENDMENT UNDER SECTION 44 OF THE PATENTS ACT 1970

In pursuance of an application under section 44 of the Patents Act 1970, Patent No. 155737 has been amended by substituting the Name, Nationality and address of the Cluett, Peabody & Co. Inc a corporation of the state of Georgia, U.S.A. for the name, Nationality and address of the garntee.

#### RENEWAL FEES PAID

139734	140663	140745	140915	140942	142235	142324
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#### CESSATION OF PATENTS

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#### REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 157729. Rocket Engineering Corpn. Pvt. Ltd., P.B. No. 178, 33 Udyamnagar Ext., Kolhapur 416001, Maharashtra State, Indian, an Indian Company. "a Rocker Support". 27th November, 1986.

Class. 1. No. 157731. Rocket Engineering Corpn. Pvt. Ltd., P.B., No. 178, 33 Udyamnagar Ext., Kolhapur 416001, Maharashtra State, India, an Indian Company. "a Crank Case". 27th November, 1986.

Class. 1. No. 157944. Vinodrai Vanravandas Barchha, an Indian of 8, Camac Street, Suite 10, Floor 9, Calcutta-700 017, West Bengal, India. "Stand for Wick Stove". 29th January, 1987.

Class. 1. No. 157946. Vinodrai Vanravandas Barchha, an Indian of 8, Camac Street, Suite 10, Floor 9, Calcutta-700 017, West Bengal, India", 29th January, 1987.

Class. 1. No. 157986. Anjali Products, 170, Bombay Talkies Compound, Malad (West), Bombay-400 064, State of Maharashtra, India. "A Peeler Cum Knife". 10th February, 1987.

Class. 1. No. 158049. Talchekar Private Limited, a company incorporated under the provisions of Indian Companies Act at Pushpa Kunj, Palkhi Wadi, of Kashinath Dhuru Road, Prabhadevi, Bombay-400 028, State of Maharashtra, India. "Display System". 24th February, 1987.

Class. 3. No. 157799. Surat Electric Industries (India), 3370-Kuncha Jalal Bukhari; Delhi Gato Bazar; New Delhi-110002 (India) an Indian Partnership Concern. "Electric Iron". 24th December, 1986.

Class. 3. No. 157846. Plastomechs (India), 57, Kabutar Khana, Indore, Madhya Pradesh, India, an Indian Proprietary Concern. "Electronic Mosquito Destroyer". 6th January, 1987.



Class. 3. No. 157847. Pitamber Lal and Company, 2946-Bara Dari; Ballimaran : Delhi-6 (India) an Indian Proprietorship Concern. "Side Box for Motor-bikes". 6th January, 1987.

Class. 3. No. 157866. Crystal Plastics & Metallizing Private Limited, Sanghi House, Palkhi Galli, Off Veer Savarkar Marg, Prabhadevi, Bombay-400 025, Maharashtra, India, a Private limited company incorporated under the Indian Companies Act. "Hair Comb". 14th January, 1987.

Class. 3. No. 157920. Tarvinder Nagpal, of 3489, Nicholson Road, Delhi-110 006, India, Indian National. "Bottle Cap's Opener". 28th January, 1987.

Class. 3. No. 157942. Beecham Group P.L.C., a British company of Beecham House, Brentford, Middlesex TW8 9BD, England. "a Bottle". 29th January, 1987.

Class. 3. No. 157943. Ballarpur Industries Limited, an Indian Registered Company of P.O. Ballarpur Paper Mill 442901 District Chandrapur (Maharashtra) India. "Container". 29th January, 1987.

Class. 3. No. 157950. Naveen Kumar Kataruka, 1, Saila Kumar Mukherjee Road, Howrah-711 101, West Bengal, India, Indian Nationality. "Container". 30th January, 1987.

Name Index of applicants for Patents for the Month of October, 1986 (Nos. 718/Cal/86 to 796/Cal/86, 776/Mas/86 to 856/Mas/86, 868/Del/86 to 966/Del/86 and 277/Bom/86 to 302/Bom/86)

#### Name and Appln. No.

##### "A"

A. H. Robins Company, Incorporated.—833/Mas/86, 834/Mas/86.

Accetta, A (Mr).—722/Cal/86.

Acme Resin Corporation.—792/Mas/86.

Ajwani, S. H.—279/Bom/86.

Aktiengeselskabet Nordiske Kabel-Og-Traandfabriker.—939/Del/86.

Albert Rolland S.A.—913/Del/86, 917/Del/86, 918/Del/86.

Alcan International Ltd.—888/Del/86.

Altrack Pty. Ltd.—830/Mas/86.

American Cyanamid Company.—792/Cal/86, 793/Cal/86.

American Standard Inc.—819/Mas/86.

Amstod Industries Incorporated.—815/Mas/86.

Arneson, R.—799/Mas/86.

Arockiasamy, A.—776/Mas/86.

Arrow Oil Tools, Inc.—868/Mas/86.

Automate (U.K.) Limited.—844/Mas/86.

Avate, S. R.—284/Bom/86.

Ayyathurai, P. C.—840/Mas/86.

##### "B"

BASF Aktiengesellschaft.—811/Mas/86.

B. F. Goodrich Co., The.—920/Del/86.

Baltimore Aircoil Company, Inc.—813/Mas/86.

Bashayam, D.—789/Mas/86.

Bayer Antwerpen N.V.—962/Del/86.

Bhatt, R. I.—301/Bom/86.

Biocon (U.K.) Limited.—806/Mas/86.

Biogram AB.—733/Cal/86.

Biotechnology Australia Pty. Ltd.—738/Cal/86.

#### Name and Appln. No.

Bosc, S.—742/Cal/86.

Bose, A. K. (Dr).—797/Mas/86.

British Hydromechanics, Research Association, The.—802/Mas/86.

British Petroleum Co. Plc.—924/Del/86.

##### "C"

Cadbury Schweppes Proprietary Limited.—776/Cal/86.

Centro Sperimentale Metallurgico S.p.A.—750/Cal/86.

Charbonnages De France (Etablissement Public).—826/Mas/86.

Chettiar, R.—840/Mas/86.

Chaliha, R.—746/Cal/86.

Cheng-Kuo, F.—741/Cal/86.

Chettiar, S.—840/Mas/86.

Circuitgraph.—737/Cal/86.

Combustion Engineering, Inc.—719/Cal/86.

Commonwealth Scientific and Industrial Research Organization.—786/Cal/86.

Conru Challe & Wai Consultants.—286/Bom/86.

Continental Gummi-Werke Aktiengesellschaft.—816/Mas/86.

Contractor, E. N.—280/Bom/86.

Corning Glass Works.—794/Mas/86.

Council of Scientific and Industrial Research.—876/Del/86, 889/Del/86, 906/Del/86, 921/Del/86, 935/Del/86, 936/Del/86, 944/Del/86, 958/Del/86, 959/Del/86.

##### "D"

Dake, D. V.—299/Bom/86.

Dana Corporation.—780/Mas/86.

Das, S. K.—897/Del/86.

Das Gupta, D.—877/Del/86.

Degremont.—846/Mas/86, 848/Mas/86.

Dott, Vittorio Gilardoni S.p.A.—721/Cal/86.

Dow Chemical Company, The.—854/Mas/86, 855/Mas/86, 856/Mas/86.

Dow Corning Corporation.—851/Mas/86.

Dreyfuss, W.—946/Del/86.

Duphar International Research B. V.—740/Cal/86.

Durable Electricals Pvt. Ltd.—931/Del/86.

##### "E"

E. I. Du Pont De Nemours and Company.—744/Cal/86.

Eastman Kodak Company.—915/Cal/86.

Enthone, Incorporated.—788/Mas/86.

Esco Corporation.—911/Del/86.

Ethicon, Inc.—787/Cal/86.

##### "F"

F.I.R. Di Forti Duilio S.R.L.—953/Del/86.

F. L. Smidth & Co.—777/Mas/86.

Food Technicians.—932/Del/86.

##### "G"

Gaulfrin, G.—891/Del/86.

Gerin, M.—821/Mas/86, 822/Mas/86, 823/Mas/86.

Ghosh, T.—762/Cal/86.

*Name and Appln. No.*

Glaxo Group Limited.—842/Mas/86.  
 Gosudarstvenny Nauchno-Issledovatel'sky Energetichesky Institut Inteni G. M. Krzhizhanovskogo.—758/Cal/86, 759/Cal/86.  
 Gruzinsky Selskokhozyaistvenny Institut.—729/Cal/86.  
 Gummudipoondi Solar Products Private Ltd.—791/Mas/86, 804/Mas/86, 841/Mas/86.  
 Gupta, B. K.—916/Del/86.

*"H"*

Hendry, N. G. C.—896/Del/86.  
 Henkel Kommanditgesellschaft Auf Aktien.—831/Mas/86.  
 Hindustan Lever Ltd.—289/Bom/86, 300/Bom/86.  
 Hitachi, Ltd.—720/Cal/86  
 Hoechst Aktiengesellschaft.—725/Cal/86, 734/Cal/86.  
 Holmdahl, U.G.—952/Del/86.  
 Hooper, B.—810/Mas/86.  
 Hukerikar, D. V.—282/Bom/86.

*"I"*

IDL Chemicals Limited.—800/Mas/86.  
 I. R. E. Industrie Rinunite Eurodomestici S.p.A.—770/Cal/86.  
 Imperial Chemical Industries PIC.—892/Del/86, 955/Del/86, 956/Del/86, 957/Del/86, 965/Del/86.  
 Imperial Chemical Industries PIC.—892/Del/86, 955/Del/756/Cal/86, 785/Cal/86.  
 Indian Space Research Organisation.—786/Mas/86, 787/Mas/86.  
 Inland Steel Company.—829/Mas/86.  
 Interand Corporation.—904/Del/86.  
 International Mines & Chemical Corporation.—807/Mas/86.  
 International Mobile Machine Corporation.—937/Del/86, 940/Del/86.  
 Isover Saint-Gobain.—727/Cal/86.  
 Italcable Servizi Cablografici Radiotelegrafici E. Radioelettrici S.p.A.—919/Del/86.

*"J"*

Jain, S. S.—878/Del/86.  
 Japan Pipe Conveyor Co., Ltd.—724/Cal/86.  
 Jayal, R.D.—947/Del/86, 948/Del/86.  
 Johar, G. S.—900/Del/86.  
 Jones, D. G.—963/Del/86.  
 Joseph.—779/Mas/86.  
 Joshi, D. M.—295/Bom/86.  
 Jyh-Hour, C.—741/Cal/86.

*"K"*

Kalamazoo PIC.—884/Del/86.  
 Kapoor, S. A.—283/Bom/86.  
 Kapoor, S. C.—283/Bom/86.  
 Kar, S.—745/Cal/86.  
 Kar, S. N.—762/Cal/86.  
 Karlsson, P.—812/Mas/86.  
 Klockner Humboldt Deutz Aktiengesellschaft.—890/Del/86, 961/Del/86.  
 Knurr Mechanik Fur Die Elektronik. AG.—747/Cal/86.  
 Kolapali, S. R.—835/Mas/86, 836/Mas/86, 837/Mas/86.  
 Kollmorgen Technologies Corporation.—874/Del/86.

*Name and Appln. No.*

Koppel Aktiengesellschaft.—795/Cal/86.  
 Krause Milling Company.—793/Cal/86.  
 Kumar, J.—820/Mas/86.

*"L"*

LCZ Landis & Gyr Zug AG.—942/Del/86.  
 L & C. Steinmuller GmbH.—723/Cal/86.  
 Libbey-Owens-Ford Company.—743/Cal/86.  
 Lubrizol Corporation The.—903/Del/86, 910/Del/86, 928/Del/86, 929/Del/86.  
 Lubrizol India Ltd.—291/Bom/86.  
 Lucas Industries Public Limited Company.—790/Mas/86.

*"M"*

MK Electric Limited.—838/Mas/86.  
 MWB Messwandler-Bau Aktiengesellschaft.—791/Cal/86.  
 Mac Modern Advanced Concrete S.P.A.—842/Mas/86.  
 Madras Fertilizers Limited.—849/Mas/86.  
 Manickam, A.—824/Mas/86.  
 Maschinenfabrik Rieter Ag.—784/Mas/86.  
 Mc Dermott Incorporated.—789/Cal/86.  
 Mehendale, A. V.—284/Bom/86.  
 Metallgesellschaft Aktiengesellschaft.—778/Cal/86, 779/Cal/86.  
 Mhatre H. K.—281/Bom/86.  
 Mhatre, K. H.—281/Bom/86.  
 Michel Serge Maxime Lofobvre.—808/Mas/86.  
 Michelin Recherche Et Technique S. A.—809/Mas/86.  
 Mobil Oil Corporation.—818/Mas/86.  
 Mosal Aluminium, Elkem A/s & Co.—853/Mas/86.  
 Mukherjee, H. N.—762/Cal/86.  
 Myoplex International Corporation.—882/Del/86.

*"N"*

Nakomote, D. (Mr).—777/Cal/86.  
 National Council for Cement & Building Materials.—879/Del/86, 880/Del/86.  
 Nayak, U. V.—832/Mas/86.  
 Nederlandse Stikstof Maatschappij B. V.—728/Cal/86.  
 Neue Hamburger Stahlwerke GMBH.—794/Cal/86.  
 Nikam, S. M.—288/Bom/86.  
 Niky Tasha India Pvt. Ltd.—881/Del/86.  
 Normalair-Garrett (Holidings) Limited.—825/Mas/86.  
 Norton Company.—788/Cal/86.  
 Nukem GmbH.—736/Cal/86.  
 O & K Orenstein.—795/Cal/86.  
 Okazaki, H.—724/Cal/86.  
 Olaf Fjeldsend A/s.—938/Del/86.  
 Orbital Engine Company Proprietary Ltd.—901/Del/86.  
 Ostlie, L. D.—850/Mas/86.  
 Owens—Illinois, Inc.—814/Mas/86.

*"P"*

Palitex Project-Company GMBH.—796/Mas/86, 827/Mas/86.  
 Pandey, A.—757/Cal/86.  
 Parkinson, C.—908/Del/86.

Name and Appln. No.	Name and Appln. No.
<p>Patel, M. S.—290/Bom/86.  Patnaik, L.—763/Cal/86.  Patwardhan, R. G.—292/Bom/86.  Pennwalt Corporation.—766/Cal/86, 773/Cal/86, 774/Cal/86, 781/Cal/86.  Pentanyl Technologies, Inc.—960/Del/86, 966/Del/86.  Phadtare, H. D.—288/Bom/86.  Phillips Petroleum Company.—731/Cal/86.  Pinkerton, H. E.—893/Del/86.  Poclain Hydraulics.—907/Del/86.  Porous Plastics Limited.—852/Mas/86.</p>	<p>Simoens, A.—297/Bom/86.  Societe des Produits Nestle S.A.—795/Mas/86, 847/Mas/86.  Societe Nationale Industrielle Aerospatiale.—927/Del/86.  Soil Technologies, Corp.—964/Del/86.  South India Textile Research Association, The.—781/Mas/86.  South Queensland Electricity Board, The.—790/Cal/86.  Standard Oil Co. The.—922/Del/86.  Stein, A.—902/Del/86.  Sulzer Brothers Ltd.—925/Del/86, 926/Del/86.  Szekely, L.—914/Del/86.</p>
P	"T"
<p>President Engineering Corp.—898/Del/86.  Pujari, N. N.—294/Bom/86.  Pyrenco INC.—748/Cal/86, 749/Cal/86.</p>	<p>Taneja, H.R.—930/Del/86.  Tatra Koprivnice.—732/Cal/86.  Taurus Gumiipari Vallalat.—782/Mas/86.  Teibow Co., Ltd.—765/Cal/86.  Trutzschler GmbH &amp; Co. Kg.—768/Cal/86.  Tulsiram, I.V.—287/Bom/86.  Turbo-Lufttechnik GmbH.—798/Mas/86.  UOP INC.—912/Del/86.  Union Carbide Corporation.—886/Del/86.  Universal Luggage Mfg. Co. Pvt. Ltd.—293/Bom/86.  University of Queensland.—782/Cal/86.</p>
Q	"V"
<p>Quadcorp Developments Co. Limited.—843/Mas/86.</p>	<p>V.I.P. Industries Limited.—296/Bom/86.  Vallourec.—894/Del/86.  Vapor Corporation.—945/Del/86.  Varma, B.K.(Dr.).—764/Cal/86.  Videocolor.—869/Del/86, 870/Del/86, 871/Del/86, 872/Del/86 &amp; 887/Del/86.</p>
R	"W"
<p>R. A. Beatty &amp; Associates Pty. Ltd.—875/Del/86.  Rajan, D. S.—783/Mas/86.  Rangaswamy, A.—895/Del/86.  Rao, G. M.—803/Mas/86.  Rathod, K. D.—285/Bom/86.  Ratnaparkhi, P. K.—298/Bom/86.  Raychem Corporation.—805/Mas/86.  Raychem Corporation.—805/Mas/86.  Raychem Limited.—778/Mas/86.  Research- Cottrell, Inc.—775/Cal/86.  Rodney Stone.—941/Del/86.  Royal Ordnance P.C.—883/Del/86, 885/Del/86, 905/Del/86.</p>	<p>Voest-Alpine Aktiengesellschaft.—761/Cal/86.</p>
S	"Y"
<p>Sab Nife AB.—943/Del/86.  Safety First Ltd.—873/Del/86.  Samsonite Corporation.—909/Del/86.  Sandvik AB.—828/Mas/86.  Schweissindustrie Oerlikon Buhrle AG.—751/Del/86.  Secretary of State for Defence in her Britannic Majesty's Govt. of the United Kingdom, The.—949/Del/86, 950/Del/86, 954/Del/86.  Seikosha Co. Ltd.—277/Del/86, 278/Bom/86, 302/Bom/86.  Separator, Inc.—801/Mas/86.  Seshadri, K.—817/Mas/86.  Shanbhag, A. M.—284/Bom/86.  Shanthi Ranjan, D.—783/Mas/86.  Shell Internationale Research Maatschappij B. V.—793/Mas/86, 839/Mas/86.  Shell Internal Research Maatschappij B.V.—923/Del/86, 951/Del/86.  Sico/Cal/86.—799/Cal/86.  Siemens Aktiengesellschaft.—726/Cal/86, 735/Cal/86, 752/Cal/86, 767/Cal/86, 771/Cal/86, 772/Cal/86, 780/Cal/86, 783/Cal/86, 796CCal/86.</p>	<p>Warman International Limited.—769/Cal/86.  Werdling, W.J.—718/Cal/86.  Westinghouse Electric Corporation.—730/Cal/86, 754/Cal/86, &amp; 755/Cal/86.  Wiggins Teapo Group Limited, The.—785/Mas/86.  Wilfried Dreyfuss.—946/Del/86.  Worms, Louis.—753/Cal/86.</p>
"Z"	<p>Zontec Treatment Systems Ltd.—899/Del/86.</p>

R. A. ACHARYA

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Designs and Trade Marks

